

Subsurface Bank Soils Investigation Results

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Introduction

This technical memorandum (TM) presents the results of an investigation of subsurface bank soils along the shoreline of Kinder Morgan's Linnton Terminal (the Site)(Figure 1). This TM followed the sampling plans provided in the *Bank Soils Investigation Work Plan, CH2M HILL September 2010* and the *Bank Soils Investigation Work Plan Addendum, (CH2M HILL November 2010)* that were reviewed and approved by the Oregon Department of Environmental Quality (ODEQ).

The purpose of the investigation work was to assess the potential for bank soils to act as a source of contamination to the Willamette River. For the purposes of this TM, the bank soils are defined as soils located on the embankment that extends from the top of slope to the bottom of slope adjacent to the Willamette River. The work completed is aligned with the overall goals of the Portland Harbor Joint Source Control Strategy (JSCS) to screen, identify, and evaluate (and, if necessary, control or eliminate) areas that may be potential sources re-contaminating the Willamette River after sediment cleanup work has been completed. For bank soils, the following two potential migration pathways could allow contaminants to reach the river:

- Erosion of contaminated bank soils into the Willamette River
- Leaching of contaminants from bank soils and migration of these contaminants to the river via groundwater/surface water pathways

The following three primary tasks were proposed in the work plans to evaluate the bank soils and include:

- Erodible Soils Assessment
- Characterization of Erodible Soils
- Characterization of Subsurface Bank Soils

The erodible soils assessment has been completed and submitted to ODEQ under separate cover (*Kinder Morgan -Linnton Terminal Riverbank Erodability Assessment Technical Memorandum, CH2M HILL November 2010*). The erodability assessment provides a detailed description of current bank conditions and geometry, identifies bank erosion mechanisms and areas where the bank may be susceptible to erosion and recommended areas for

additional sampling. Sampling of potential erodible bank soils will be implemented after DEQ concurrence with the recommendations in the November 2010 Erodability Assessment TM.

This TM presents the results of the characterization of subsurface bank soils.

Kinder Morgan's Linnton Terminal, shown on Figure 2, is approximately 17 acres with approximately 1,000 feet of shoreline. The facility has been used as a storage and distribution terminal for petroleum products (gasoline, diesel, and lubricating oil) dating back to as early as 1918 and it is currently used to store and distribute gasoline and diesel fuel (KMH, 2002).

The Willamette River, on the eastern side of the terminal, flows at the foot of a steep bank, 15 to 16 feet below the grade from the rest of the terminal. The top of the river bank is at an elevation of approximately 30 feet. The slope of the riverbank varies across the Site. The slopes of the riverbank north of the tank area are steepest, with slopes between 1.5 horizontal to 1 vertical (H:V), and the riverbank generally becomes steeper higher up the slope. East of the tank area, the slopes are uniform and less steep. The portions of the riverbank near the toe of the slope and just above the transition to the river shore and sediment zone are generally flatter than 3.5H:1V.

Most of the slope is armored with cobble to builder-sized riprap separated by retaining walls constructed from wood planks and pilings. There is very little vegetation growing on the bank. Below ordinary high water, the grade of the river bed is gently sloping away from the bank and comprises a mix of sand and gravel.

Shallow soils beneath the site are primarily sand and silty sand to a depth of 30 feet, which is underlain by finer-grained deposits (clays and silts).

Soils encountered in hand auger borings as part of the Subsurface Bank Soils investigation generally consisted of layers of gravelly sands and silts, which are consistent with soils encountered along the Willamette River.

In general, soils encountered ranged from silty to well graded sandy gravel at the surface to interbedded layers of silty sand and silt at depths to 7 feet below ground surface (bgs). Sands and gravels observed near the surface could be fill and/or dredge material. Some wood fragments and other organic material were observed within the silt layers, which supports low energy depositional environments observed along the river, which is typical for most sites along this reach of the river. The silt layers observed in some borings are discontinuous across the riverfront.

Constituents of Potential Concern

Previous soil investigations (Delta, 2009; KHM 2003; KHM 2002) have narrowed the constituents of potential concern (COPC) to include petroleum-related compounds and metals. Constituents of potential concern at the site include the following:

- Total petroleum hydrocarbons (TPH) as gasoline, diesel, and lubrication oil ranges

- Aromatic volatile organic compounds (VOC), including benzene, toluene, ethylbenzene, xylenes, and naphthalene (BTEX-N)
- Polycyclic aromatic hydrocarbons (PAH),
- Metals

Release and Investigation History

There have been 10 reported releases of fuel at the Linnton Terminal between 1972 and 1998 (KHM, 2002; ODEQ, 1999). Of these, six of the releases reportedly involved discharge directly to the river during fuel transfer, and information on a 1973 release is limited to a description of a sheen observed on the river (ODEQ, 1999). The release records do identify three significant releases that may have impacted bank soils. These releases are discussed below.

In 1982, oil seepage to the river was reported to have occurred as a result of underflow beneath the subsurface seepage control system located north of the fuel transfer lines. The historical seepage control system was reportedly installed in the 1960s (GATX, 1982). This seepage control system reportedly consisted of a 25-foot-deep trench lined with plastic and backfilled with gravel, which has lateral collection piping to capture and transfer fluids to a 3-foot-diameter cistern. The recovered fluids were then reportedly pumped to a separator tank. As a result of this seepage, a second similarly constructed trench and extraction system was installed downgradient of the existing trench (GATX, 1982). These cisterns are still present onsite, and the lined trench and collection piping do not appear to have been abandoned (Nate Hemphill, Delta Consultants, personal communication on July 7, 2010).

Two of the reported releases appear to be associated with a release from a diesel fuel line near the northern approach to the marine dock. The initial reported release occurred in December 1994 when a small leak was discovered from the aboveground portion of a diesel fuel line. The second reported release in November 1995 was attributed to a sheen observed in the river coming from the bank approximately 50 feet south of monitoring well MW-2 (AGRA, 1996).

Investigations associated with these releases included removing an unspecified amount of soil and installing monitoring wells MW-1 through MW-4 to evaluate the extent of impacts. An observed non-aqueous phase liquid (NAPL) thickness of greater than 10 feet was observed for the monitoring wells along the top of bank (MW-1, MW-2, and MW-3) during the first 4 months of monitoring (AGRA, 1996). As part of the remedial action, pumps were installed in MW-1, MW-2, and MW-3 to remove NAPL, and approximately 213 gallons were removed (KHM, 2002) before pumping was stopped because of substantial decreases in the amount of recoverable product in the wells.

During the Remedial Investigation field activities conducted in January 2002, sheen was also observed in the river near the location of monitoring well MW-10. In response, absorbent booms were installed to encompass the bank area where the sheen was produced. The extent of the area where sheen has reportedly been observed on the Willamette River area is shown on Figure 3. To address the apparent discharge to the river, the Interim Removal Action Measure (IRAM) groundwater extraction system was installed upgradient of the

areas where sheen has been observed. The IRAM system began operation in July 2004 and continues to operate.

Environmental investigations initiated in the 1990s have resulted in a groundwater monitoring network of approximately 30 wells and 5 piezometers at the site.

Supplemental LNAPL Investigation

CH2M HILL completed a light non-aqueous phase liquid (LNAPL) mobility study in an area near the proposed barrier wall. Additional information collected from this field and laboratory work on the nature and extent of hydrocarbon contamination along the terminal's shoreline has been incorporated into the existing conceptual site model and was used to further refine the sampling scope of work presented in this report. Boring locations CH-1 and CH-2 are shown on Figure 3.

Seep Areas

The locations where sheen has been observed in apparent groundwater discharge to the river are shown on Figure 3. These include the location riverward from the historical trench systems, and the area approximately 50 feet south of MW-2. Of these, a groundwater seep has only been observed near the historical trench systems. At the other location, groundwater seeps (i.e., visible discharge of groundwater to ground surface above the river elevation) have not been identified.

Subsurface Bank Soils Sample Collection Methods

This section presents the methods used to collect subsurface bank soil samples. Work described in this section involves collecting soil samples from the subsurface, analyzing these samples for the COPCs, and comparing them against screening levels.

Sample Design

Subsurface soil boring locations proposed in the original work plan were located near the bulkhead on the upper tier of the retaining wall. During a pre-investigation reconnaissance site walk, Delta Environmental were able to observe in areas where lateral support boards have a sufficient gap or are missing altogether, large-diameter (from 4-inches to greater than several feet in diameter) rip-rap was present over the full observable depth of approximately 4 to 5 feet. Based on these observations, leveling the area and using a drill rig to reach the target elevation that corresponds to the elevation of LNAPL upland of the bulkhead, would not be feasible.

CH2MHILL and Delta Environmental evaluated angle borings to reach the target depths under the bulkhead and rip-rap. Several factors also made this approach infeasible for the work. In the area adjacent to the lower tank farm (southeast portion of site), a drill rig cannot be oriented perpendicular to the wall for angle drilling into the bank soils due to limited space in this area. In addition, angle drilling would require boring through the retaining wall and beneath utilities located along the top of slope in order to reach the target

depths. Such drilling would be challenging, potentially risky, and has a high likelihood of encountering large rip rap that would prevent successful collection of soil samples at the target depths.

CH2MHILL and Delta Environmental proposed to re-locate the subsurface soil borings to allow for target depths to be reached and soil samples to be collected and these locations were presented to ODEQ in the *Bank Soils Investigation Work Plan Addendum, CH2MHILL November 2010*. The locations of these borings still correspond to the locations of historical releases and proposed target depths.

Figure 3 presents the locations of soil borings for characterizing COPC concentrations in subsurface bank soils. The locations of these borings were based on the locations of historical releases discussed previously.

A total of 17 hand-auger soil borings were used in the evaluation of subsurface bank soils and includes borings BA-1 through BA-6 installed as part of this investigation and borings CH-1 and CH-2 installed during the *Supplemental LNAPL Delineation And Mobility Assessment, CH2MHILL December 2010*. Soil borings BA-1 through BA-4A, 4B, and 4C were intended to evaluate potential impacts to bank soils near the diesel spill and seep areas within the bank soils. BA-3 is located near the historical seep observed in the mid-1990s, and BA-4 is located near the current seep.

Soil borings (BA-5A through BA-5E and BA-6A and BA-6B) were located near the historical trench systems in the northeastern portion of the site. Historical data suggests that bank soils do not appear to be impacted north of the historical lined trench systems, based on the lack of releases in this area and analytical results for MW-25. At MW-25, no analytes exceeded screening level values (SLV) with the exception of phenanthrene (1.72 milligrams per kilogram [mg/kg]) in the soil sample collected at 15.5 feet below ground surface, which slightly exceeded the SLV of 1.17 mg/kg. Soil samples collected from this boring at 20.5 and 30.5 feet below ground surface were below SLVs for all analytes.

Sample Collection

Soil sample collection work entails elements related to planning/mobilization and sample retrieval, handling, and shipment. Figure 4 presents a cross-section of site lithology and historic water table elevations from the upland portion of the site to the river. Figure 5 presents a cross section from the boom area to the top of the bank. Target depths of the subsurface bank soils were correlated to the elevation of the areas of LNAPL impacts identified in the CPT/LIF and other boring and well log data that was previously collected behind the wall. Table 1 lists the measured elevation of the water table from onsite monitoring wells compared to the elevation of subsurface bank soil collected for analysis.

Drilling Method

Because the original sample locations were re-located further down the slope, the elevation of the target depths were reachable by hand auger, therefore, subsurface soil sample collection was completed using hand auger techniques.

Sampling Procedure

The field team collected continuous soil at each sample location using a hand auger. Sample locations were logged by field personnel using the Unified Soil Classification System and screened using a field portable photo-ionization detector and visual/olfactory observations of hydrocarbons. For oil impacted sections of the soil core, the following conventions were used in the soil descriptions:

- None Visible – Visible NAPL is not observed in the soil core interval
- Odor – Petroleum odor or positive response to an organic vapor detector
- NAPL Sheen – NAPL is not visible but a distinct film is evident
- NAPL-Impregnated – NAPL is visible in the spaces between the soil grains but NAPL does not flow from the sample
- Free NAPL – Soil is NAPL-impregnated and NAPL flows from the soil grains to the surface of the sample

Target depths were sampled for non-volatile analytes by removing discrete intervals from the soil sampling tools and packing them into glass soil jars. For volatile analytes, soil was placed into soil jars and low-level VOC sampling containers. A total of ten subsurface bank soil samples were collected for analytical testing using a hand auger during the investigation.

Samples were preserved to 4°C, handled using chain-of-custody protocols, and delivered to the environmental testing laboratory within holding times. The soil samples were submitted to TestAmerica laboratory in Beaverton, Oregon for the following analytical methods:

- TPH – Northwest total petroleum hydrocarbon Method NWTPH
- Polycyclic aromatic hydrocarbons (PAHs) per Method 8270M-SIM
- Volatile organic compounds (VOCs) per Method 8260B
- Metals - arsenic, barium, cadmium, copper, chromium, mercury, lead, selenium, and zinc per Method 7471 for mercury and Method 6020 (6000/7000 Series) for all other metals.

Soil boring locations were measured using a resource-grade global positioning unit (GPS) accurate to less than 1 meter with post-processing correction.

Subsurface Bank Soils Sample Collection Results

This section presents the results of the subsurface bank soils investigation. A total of ten subsurface bank soil samples were collected during the investigation from the 17 hand auger locations. The analytical results of the subsurface bank soils are presented in Tables 2 and 3. The target depths at several boring locations were not reached because of refusal. When refusal was encountered, the hand auger location was moved. In addition, the target depths were not reached at boring location BA-6 because of subsurface cobbles and rip-rap throughout the area. This location was moved during the investigation (BA-6B), but was unsuccessful in reaching the target depth for sample collection.

The analytical results presented in Tables 2 and 3 were compared to the Portland Harbor Joint Source Control screening level values including the ODEQ 2007 bio-accumulative sediment screening level values (SLVs). The sample designation presented in Tables 2 and 3 refer to the sample location/identification and the depth the sample was collected for laboratory analysis.

Total Petroleum Hydrocarbons and VOCs

Total petroleum hydrocarbons (TPH) were detected in all soil samples above the laboratory method reporting limit (MRL) with the exception of BA-1-9.5, which was collected below the water table. TPH concentrations ranged from 45.8 milligrams per kilogram (mg/kg) as gasoline (TPH-G) at BA-2-4.5 TO 96,300 as diesel (TPH-D) in sample BA-4-5 (Table 2).

Select VOCs were detected in four boring locations (BA-2-6.5, BA4-5, BA-5-4.5, and BA-5C-3.5) at concentrations above the MRL. The highest VOC concentrations were detected in soil sample BA-4-5, which corresponds to the highest TPH detections. Benzene, ethylbenzene, toluene and xylenes (BTEX) compounds were not detected above the laboratory MRL. There are currently no SLVs for TPH and VOCs.

Metals

Arsenic, barium, chromium, copper, lead and zinc were detected above the MRL. Arsenic slightly exceeded the ODEQ 2007 bioaccumulation sediment SLVs of 7.0 mg/kg in four sample locations (BA-2-6.5, BA-3-4.5, BA-3-8, and BA-5-4.5). Lead exceeded the ODEQ SLVs of 17.0 mg/kg at five locations with the highest concentration detected at sample location BA-5-4.5. All other metals were detected at concentrations below the SLVs.

Polycyclic Aromatic Hydrocarbons (PAHs)

PAHs were detected in all sample locations above the MRL. The highest concentrations were detected in sample BA-5C-3.5 (Table 3). Pyrene was the highest detected PAH compound at 71,600 micrograms per kilogram (ug/kg) at BA-5C-3.5. Several PAH compounds exceeded the JSC screening levels. In general, the PAH detections in the subsurface bank soils corresponded to the CPT/LIF data from the LNAPL investigation.

Conclusions and Recommendations

A total of ten subsurface bank soil samples were collected using a hand auger during the investigation. Sample location BA-6 was not sampled as the target depths were not reached because of refusal. Target depths were achieved at all other bank soil sampling locations. The target depths were defined as the depth within the bank that corresponds to the interval of shallow groundwater where the greatest impacts have been observed in upland monitoring wells.

In general, all soil samples had detections of COPCs above the MRL, with the highest concentrations encountered at sample locations BA-4 and BA-5. Several compounds detected exceed the SLVs for both the JSC screening and ODEQ bioaccumulation for sediments. These locations correspond to the seep areas identified along the riverfront.

It appears that the subsurface bank soils downgradient from the upland monitoring well locations to the existing seep areas observed along the riverfront have been impacted with TPH, PAHs, select VOCs, and select metals.

NAPL continues to be present in numerous wells upgradient of the BA-4 seep area, and seasonal oil seeps persist. A barrier wall is scheduled to be installed in this area in 2011 as a LNAPL source control measure.

LNAPL upgradient of the BA-5 area is currently only found in MW-12, and since 2007, MW-12 has contained 0.1 feet of NAPL or less. Other monitoring points upgradient of BA-5 (P-3 and the former recovery system sumps) do not contain measurable separate phase hydrocarbons and oily sheen has not been present in the BA-5 area since before the start of RI work in the early 1990's (over 20 years). Therefore, LNAPL impacts to the river in the BA-5 area are not expected.

Soil borings not located directly upgradient of the seep areas (BA-1, BA-2) had detections of TPH, PAHs and metals indicating these soils have been impacted by upgradient source areas, but concentrations were an order of magnitude lower than those observed at BA-4 and BA-5.

Recommendations

Based on the subsurface bank soils investigation, the lateral extent of impacted subsurface bank soils has not been fully delineated. Based on the data collected to date it is recommended that additional bank soils and beach samples be collected in select areas. This additional data will be used to identify possible soil and groundwater impacts in these areas and the additional data collected will be used to revise, if needed, the LNAPL conceptual site model (CSM). The CSM will be used to develop possible source control measures (SCM) for impacted bank and beach soils.

Recommendations for additional bank soils and beach sampling include the following:

- Seep Areas: The lateral extent of subsurface soils in the area of the seeps has not been fully delineated based on analytical results from the subsurface bank soils investigation. Additional subsurface soils data collected immediately north and south of boring locations BA-3 and BA-4 would identify possible subsurface impacts to the river in the south seep area. During low river stage, an additional sample location closer to the river will assist in evaluation of possible impacts to the river and would identify lateral impacts from the existing seep area.
- Sample location BA-6: This area was not sampled because of large rip-rap and refusal. Proposed sample collection in this area may include an excavator to temporarily move rip-rap overburden to reach target depths. During low river stage, an additional sample location closer to the river will assist in evaluation of possible impacts to the river.
- Sample location BA-2: An additional sample located closer to the river during low river stage will provide data in evaluation of possible dissolved phase impacts to the river.

It is recommended that Kinder Morgan and ODEQ schedule a consultation meeting to discuss additional bank soils and beach soils sample collection. A work plan will be developed to include data quality objectives for the bank soil investigation. It is anticipated

that the additional bank soil investigation will be completed during August 2011 to maximize beach access during low river stage.

References

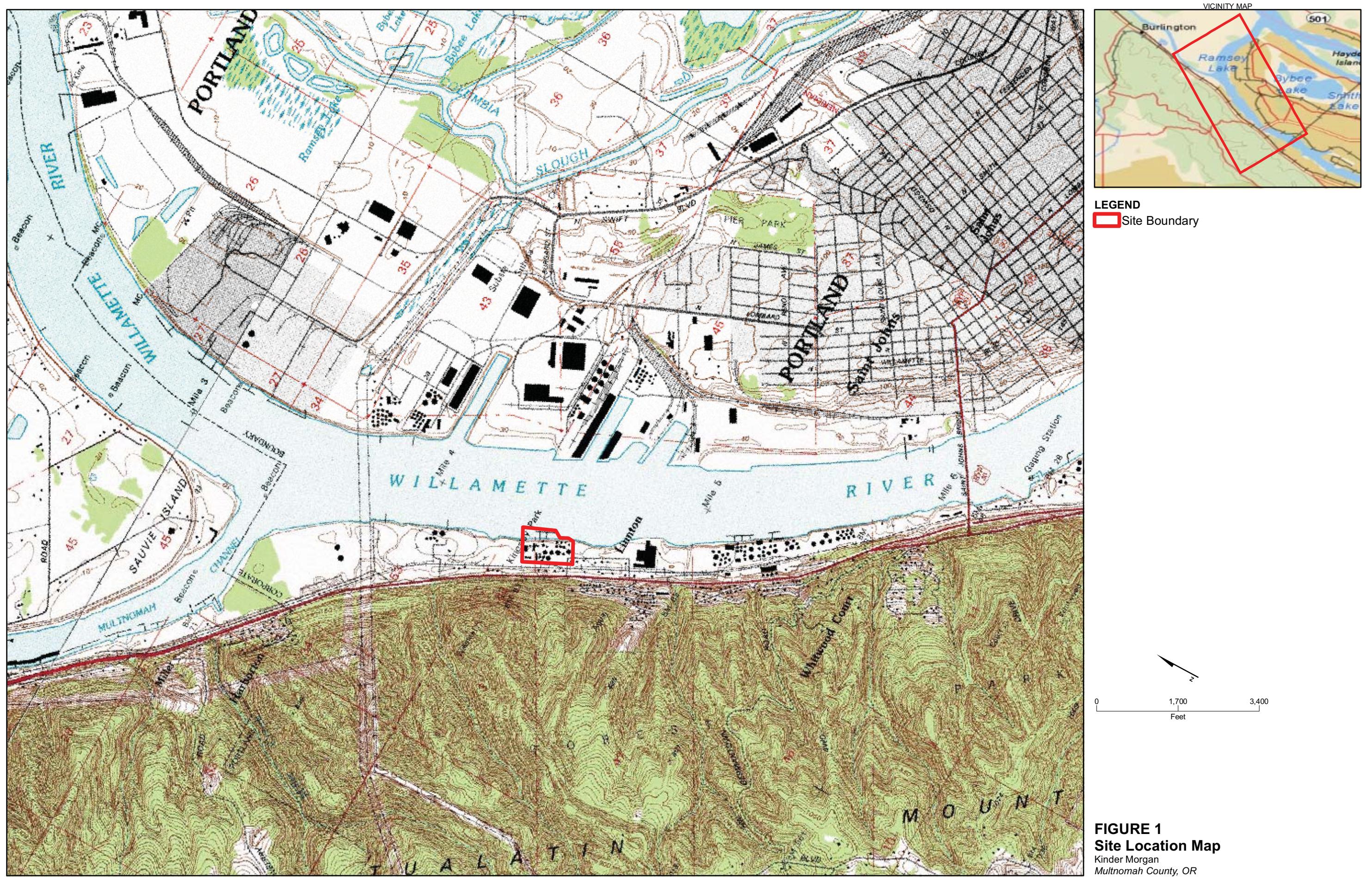
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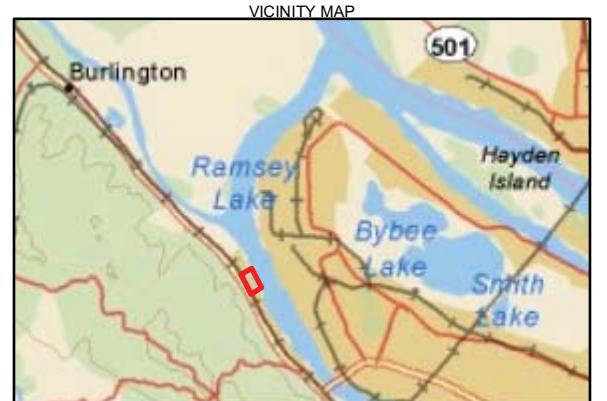
TABLE 1
SOIL ANALYTICAL RESULTS - TPH, VOCs, AND METALS
Kinder Morgan - Linnton Terminal
Portland, Oregon

SAMPLE ID	SAMPLE DATE	DEPTH COLLECTED, FEET BGS	TPH					VOCs												Metals								
			TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-O (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Xylenes (Total) (µg/kg)	n-Butylbenzene (µg/kg)	sec-Butylbenzene (µg/kg)	Isopropylbenzene (µg/kg)	p-Isopropyltoluene (µg/kg)	n-Propylbenzene (µg/kg)	1,1,2,2-Tetrachloroethane (µg/kg)	1,2,4-Trimethylbenzene (µg/kg)	1,3,5-Trimethylbenzene (µg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Zinc (mg/kg)		
BA-1-8	11/11/10	8	<11.9	131	231	<270	<270	<270	<810	<1,350	<270	<540	<540	<270	<270	<270	2.58	172	<0.636	18.1	16.5	29.2	<0.119	<0.636	82.4			
BA-1-9.5	11/10/10	9.5	<13.0	243	274	<297	<297	<297	<891	<1,480	<297	<594	<594	<297	<297	<297	6.16	170	<0.643	33.3	36.0	17.1	<0.0977	<0.643	92.9			
BA-1-11.5	11/11/10	11.5	<11.0	<17.0	<34.0	<238	<238	<238	<715	<1,190	<238	<477	<477	<238	<238	<238	5.45	185	<0.685	32.4	20.2	15.4	<0.117	<0.685	74.7			
BA-2-4.5	11/11/10	4.5	45.8	297	139	<321	<321	<321	<963	<1,610	<321	<642	<642	<321	<321	<321	6.25	154	<0.711	26.3	27.6	16.4	<0.119	<0.711	83.2			
BA-2-6.5	11/11/10	6.5	501	11,400	1,390	<274	<274	<274	<822	1,370	1,450	<548	<548	<274	378	<274	9.66	145	<0.693	24.1	24.5	31.4	<0.0755	<0.693	87.2			
BA-3-4.5	11/09/10	4.5	54.0	118	92.1	<263	<263	<263	<789	<1,310	<263	<526	<526	<263	<263	<263	7.86	151	<0.753	27.4	26.3	16.4	<0.0800	<0.753	81.8			
BA-3-8	11/09/10	8	77.1	198	94.9	<439	<439	<439	<1,317	<2,200	<439	<878	<878	<439	<439	<439	9.75	140	<0.778	19.0	25.0	10.8	<0.130	<0.778	87.1			
BA-4-5	11/12/10	5	11,800	96,300	7,560	<3,290	<3,290	<3,290	<9,880	40,400	41,200	38,500	<6,590	42,100	7,120	<3,290	<3,290	5.40	125	<0.596	21.3	18.7	10.3	<0.113	<0.596	55.6		
BA-5-4.5	11/12/10	4.5	1,750	8,540	1,240	<1,150	<1,150	<1,150	<3,450	<5,740	1,680	<2,300	<2,300	<1,150	3,090	<1,150	7.50	160	<0.672	19.8	16.0	38.3	<0.126	<0.672	122			
BA-5C-3.5	11/12/10	3.5	1,030	24,100	22,900	<431	<431	<431	<1,293	<2,160	<431	<862	961	<431	1,180	2,820	543	4.56	125	<0.583	27.5	21.1	119	<0.115	<0.583	249		
Portland Harbor Joint Source Control Screening Level Values																												
MacDonald PECs and other SQVs			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	33.0	--	4.98	111	149	128	1.06	5.0	459		
DEQ 2007 Bioaccumulative Sediment SLVs			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.0	--	1.0	--	--	17.0	0.070	2.0	--		

TABLE 2
SOIL ANALYTICAL RESULTS - PAHs
 Kinder Morgan - Linnton Terminal
 Portland, Oregon

SAMPLE ID	DATE COLLECTED	DEPTH COLLECTED, FEET BGS		2-Methyl- naphthalene ($\mu\text{g}/\text{kg}$)	Acenaphthene ($\mu\text{g}/\text{kg}$)	Acenaphthylene ($\mu\text{g}/\text{kg}$)	Anthracene ($\mu\text{g}/\text{kg}$)	Benzo (a) anthracene ($\mu\text{g}/\text{kg}$)	Benzo (a) pyrene ($\mu\text{g}/\text{kg}$)	Benzo (b) fluoranthene ($\mu\text{g}/\text{kg}$)	Benzo (g,h,i) perylene ($\mu\text{g}/\text{kg}$)	Benzo (k) fluoranthene ($\mu\text{g}/\text{kg}$)	Chrysene ($\mu\text{g}/\text{kg}$)	Dibenzo (a,h) anthracene ($\mu\text{g}/\text{kg}$)	Fluoranthene ($\mu\text{g}/\text{kg}$)	Fluorene ($\mu\text{g}/\text{kg}$)	Indeno (1,2,3-cd) pyrene ($\mu\text{g}/\text{kg}$)	Naphthalene ($\mu\text{g}/\text{kg}$)	Phenanthrene ($\mu\text{g}/\text{kg}$)	Pyrene ($\mu\text{g}/\text{kg}$)
BA-1-8	11/11/10	8	<16.8	59.6	19.6	34.6	59.8	89.7	104	110	85.8	102	23.8	127	30.5	92.7	<16.8	54.1	125	
BA-1-9.5	11/10/10	9.5	<172	2,950	<172	996	2,230	650	818	274	590	1,480	<172	8,930	2,110	246	<172	4,510	8,080	
BA-1-11.5	11/11/10	11.5	<18.1	21.9	<18.1	<18.1	<18.1	<18.1	<18.1	<18.1	<18.1	<18.1	45.9	<18.1	<18.1	<18.1	25.3	38.1		
BA-2-4.5	11/11/10	4.5	<19.5	144	<29.3	81.6	72.6	97.1	69.8	105	59.7	89.8	<19.5	255	233	65.5	<39.0	534	366	
BA-2-6.5	11/11/10	6.5	<192	11,000	<575	5,810	3,140	1,060	1,250	273	1,020	3,110	<192	22,600	16,400	264	<383	60,300	14,900	
BA-3-4.5	11/09/10	4.5	<20.0	23.6	<20.0	24.5	41.8	88.0	65.5	104	44.1	58.8	<20.0	78.6	28.6	66.4	<20.0	47.5	211	
BA-3-8	11/09/10	8	<21.5	58.0	<21.5	<32.2	<21.5	<21.5	<21.5	<21.5	<21.5	43.4	<21.5	49.5	<53.6	<21.5	<21.5	131	90.7	
BA-4-5	11/12/10	5	<3,960	16,900	<5,930	7,400	1,020	953	<791	<791	<791	1,820	<791	3,190	41,700	<791	<5,930	61,700	6,590	
BA-5-4.5	11/12/10	4.5	<177	1960	<532	857	254	279	229	246	<177	418	<177	752	2,860	<177	<532	7,000	1,330	
BA-5C-3.5	11/12/10	3.5	54,200	8,860	<1,930	14,400	14,500	15,100	6,990¹	9,030	<1,930 ¹	21,600	<1,930	8,070	10,200	3,360	<1,930	53,100	71,600	
CH-1	09/07/10	20	<25	2300	<25	580	740	420	730	200	730	400	<25	1400	3,500	190	1200	3,600	2,000	
CH-2	09/08/10	20	<25	5700	<25	440	1100	620	1200	360	1200	540	54	2300	1,700	320	240	1,900	2,900	
CH-3	09/07/10	19	<25	2,900	<25	520	170	58	150	51	150	110	<25	410	5,100	43	1300	4,600	570	
Portland Harbor Joint Source Control Screening Level Values																				
MacDonald PECs and other SQVs			200	300	200	845	1,050	1,450	--	300	13,000	1,290	1,300	2,230	536	100	561	1,170	1,520	
DEQ 2007 Bioaccumulative Sediment SLVs			--	--	--	--	--	--	--	--	--	--	--	37,000	--	--	--	--	1,900	
NOTES:																				
Table summarizes laboratory contaminant detections and method reporting limits (MRLs) above appropriate SLVs. Other VOCs analyzed for and not detected above the laboratory MRLs are not listed in this table.																				
Appropriate SLV values to be used for initial source control screening are highlighted. Detections and MRLs that exceed applicable SLVs are highlighted.																				
Screening Level Values (SLVs) taken from Table 3-1 of the Portland Harbor Joint Source Control Strategy (JSCS) guidance document, updated July 16, 2007.																				
Bold face font indicates analyte was detected above MRLs.																				
Highlighting indicates value (or MRL) exceeds SLV.																				
$\mu\text{g}/\text{kg}$ = micrograms per kilogram, dry weight basis																				
-- = Not analyzed or not applicable																				
¹ = Due to matrix unable to resolve Benzofluoranthene isomers. Value reported in Benzo(b) category represents Total Benzo(b+k)fluoranthene.																				
PAHs = Polynuclear Aromatic Hydrocarbons																				
PAH analysis using EPA Method 8270M-SIM																				





Legend

— Site Features

-+ Fence

— Railroad

Wells and Borings

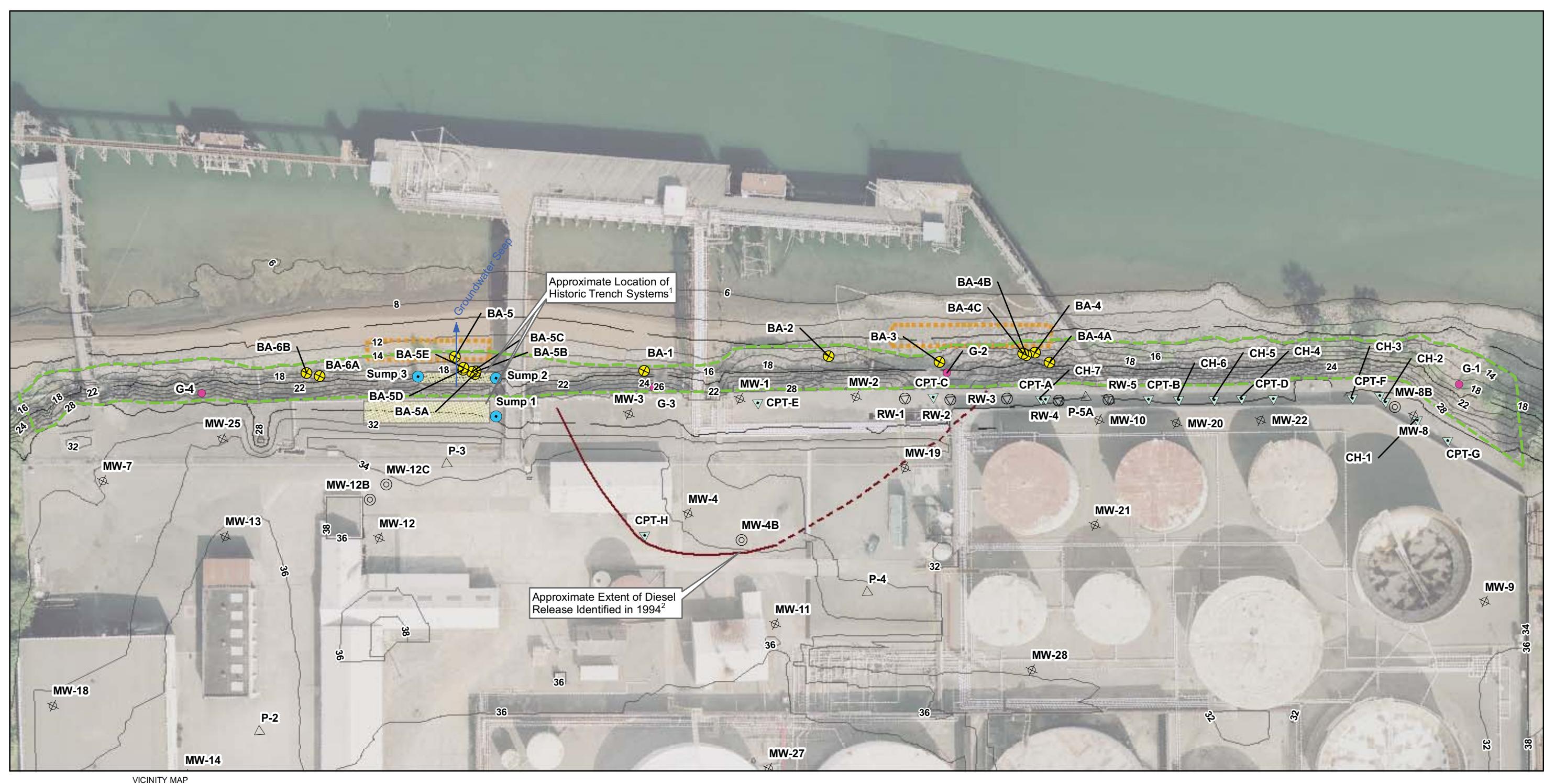
- Monitoring Well - Deep
- ⊕ Monitoring Well - Shallow
- △ Piezometer
- ◎ Recovery Well - Shallow
- 3-Foot Diameter Cistern
- Direct Push Boring
- DP Boring

0 50 100 200
Feet



FIGURE 2
Site Layout

Kinder Morgan Liquid Terminals LLC
Linton Terminal
11400 NW St. Helens Road
Portland, Oregon



VICINITY MAP



LEGEND

- Minor Contour Line
- Major Contour Line
- Extent of Bank Soil
- Historic Trench System
- Approximate Area Where Sheen was Observed
- Bank Soils**
- ⊕ Bank Soils Boring
- Surface Sample

Monitoring Wells and Borings

- 3-Foot Diameter Cistern
- △ Direct Push Boring
- Monitoring Well - Deep
- ⊕ Monitoring Well - Shallow
- ▽ Piezometer
- ◇ Recovery Well - Shallow

References:

1. Based on details presented in letter from Harry DeMaray of GATX to DEQ dated August 4, 1992.
2. Based on results of direct-push investigation presented in Subsurface Environmental Site Assessment Report (AGRA, 1996)

0 25 50 100
Feet



FIGURE 3
Subsurface Sampling Locations
Kinder Morgan Liquid Terminals LLC
Linnton Terminal
11400 NW St. Helens Road
Portland, Oregon

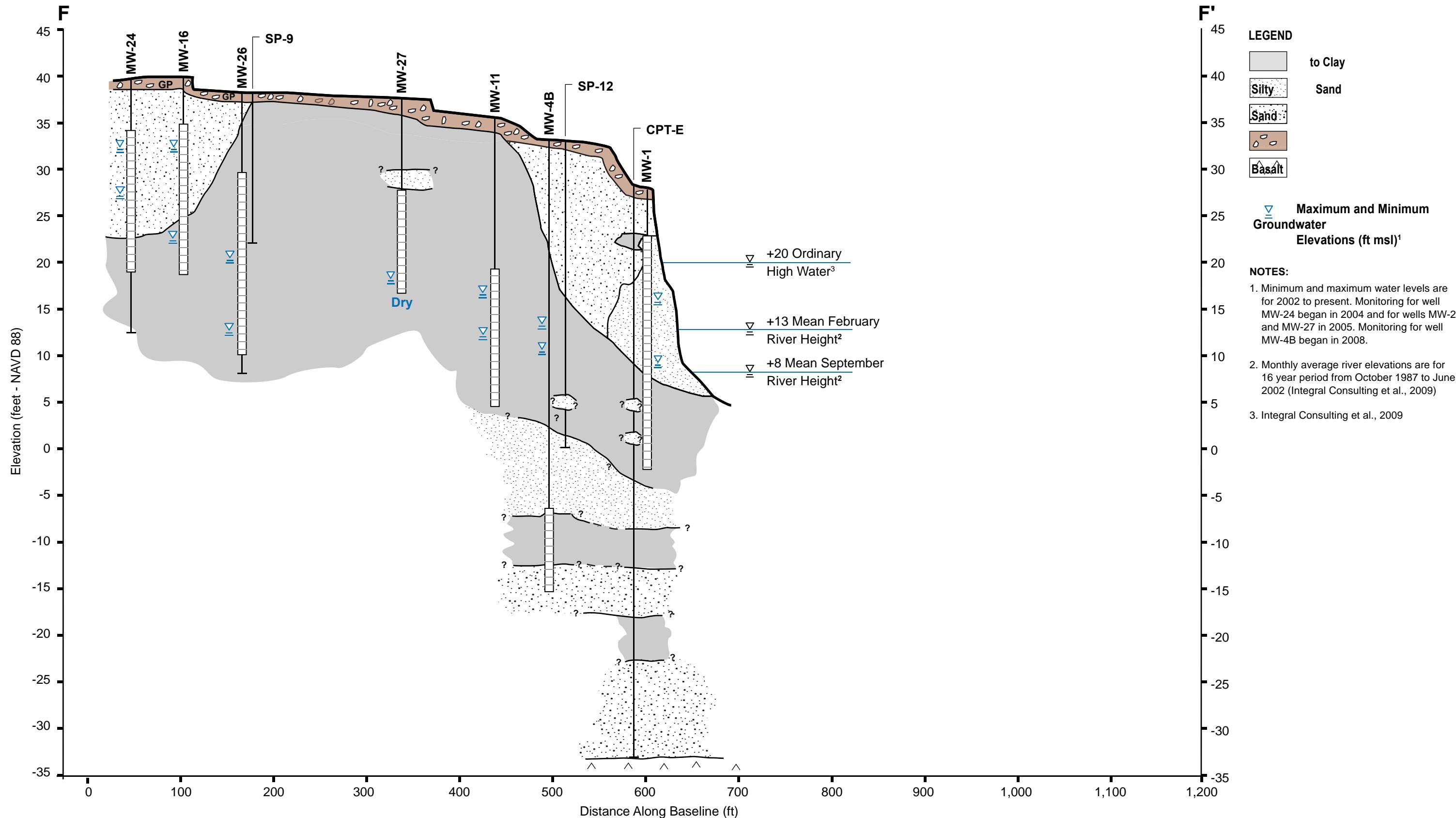
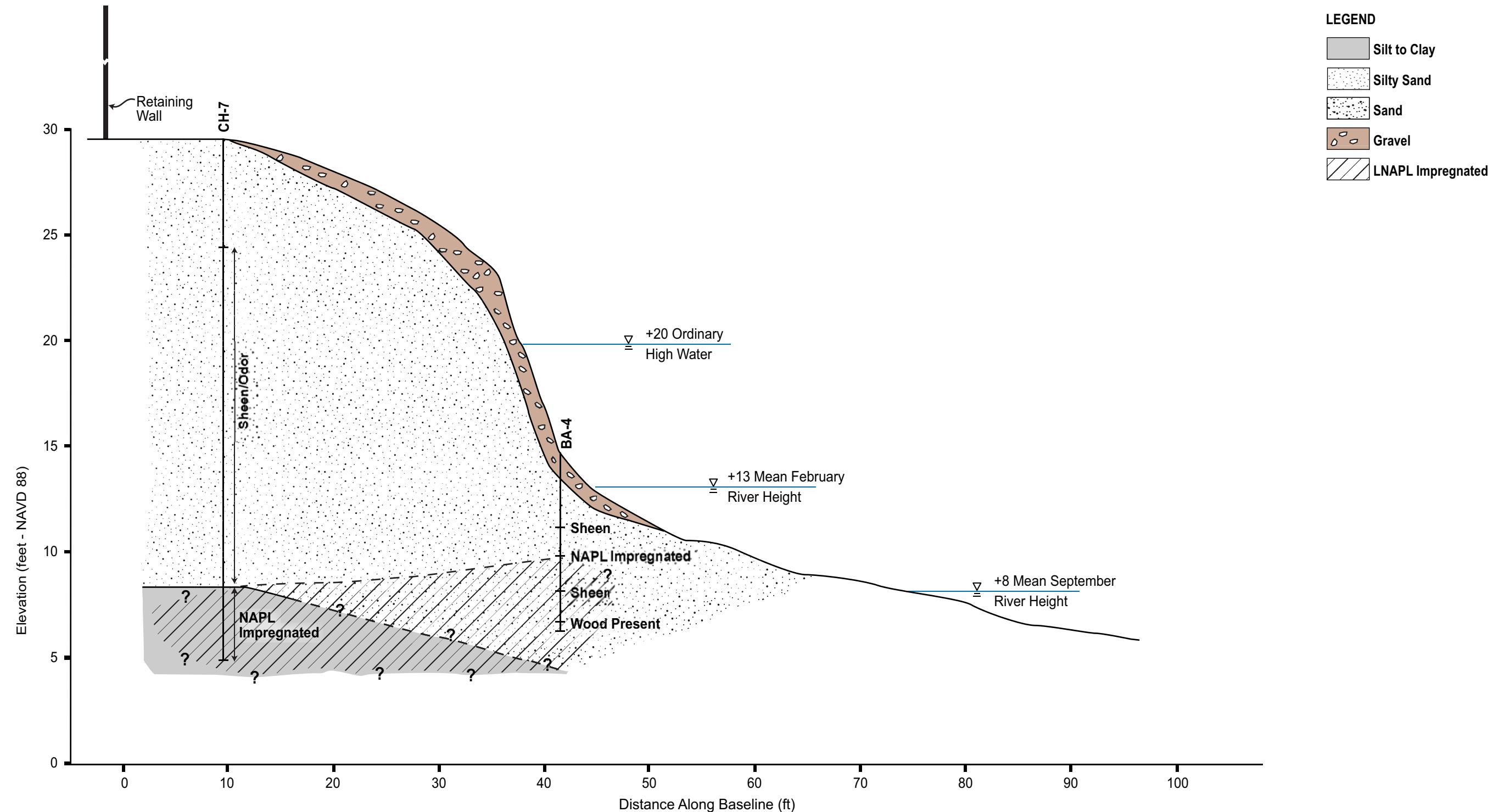


FIGURE 4
Cross Section F-F'
 Kinder Morgan Liquids Terminals LLC
 Linnton Terminal
 11400 NW St. Helens Road
 Portland, Oregon

Vertical: 1" = 10'
 Horizontal: 1" = 100'
 Vertical Exaggeration = 10x



Vertical: 1" = 10'
 Horizontal: 1" = 0'
 Vertical Exaggeration = 2x

DRAFT - FOR DISCUSSION PURPOSES ONLY

FIGURE 5
**Cross Section of Bank Soils
 in Boom Area**
 Kinder Morgan Liquids Terminals LLC
 Linnton Terminal
 11400 NW St. Helens Road
 Portland, Oregon



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-1**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/11/10	Boring diameter (in.): 3.5	Casing Material: N/A				
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A				
		Drilling Method: Hand Auger	Boring Depth (ft.): 11.75	Screen slot size: N/A				
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic				
0			GM	SILTY GRAVEL WITH SAND (Riprap fill); Brown, well-graded (fine sand up to 10" angular cobbles), no odor, no staining (40% cobbles, 20% gravel, 20% sand, 20% silt)				0
4	→	M	SM	SAND; Brown, medium-fine, subangular, with trace silt Grades rust in color, weakly cemented, no odor				4
7	←	M		Grades brown in color, not cemented				7
9	→	M	ML	Grades gray in color, faint odor				9
11	↓	M		SILT; Gray, stiff with interlaced sand/silt, trace organics and pebbles present, faint odor, faint sheen No sheen present Black organic flakes and rootlets present				11
11.75				Bottom of Boring at 11.75 feet bgs				11.75



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-2**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/11/10	Boring diameter (in.): 3.5	Casing Material: N/A			
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A			
		Drilling Method: Hand Auger	Boring Depth (ft.): 7	Screen slot size: N/A			
		Sampling Method: Grab	Well Depth (ft.): N/A	Sand Pack: N/A			
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol Soil/Rock Graphic	Soil/Rock Visual Description	PID Reading (ppmv)	Boring Completion	Depth (ft.)
0			GM	SILTY GRAVEL WITH SAND (Riprap fill); Brown, well-graded (fine sand up to 10" angular cobbles), no odor, no staining (40% cobbles, 20% gravel, 20% sand, 20% silt)			0
			SP	POORLY GRADED SAND WITH GRAVEL; Brown, medium sand, rounded to angular gravel up to 4"			
			ML	SILT; Brown with trace sand Grades gray in color with sheen and odor			20
				Odor and sheen present			
5			SM	SILTY SAND; Less odor, no sheen (70% fine sand, 20% silt)			5
				Sand, wood, and organic debris present; sheen, no odor			
			ML	SANDY SILT; 60% silt, 30% sand, 10% wood and organics, sheen and odor			
				Bottom of Boring at 7 feet bgs			
10							10



BORING LOG

Client: Kinder Morgan

Boring/Well No.

Project Number: KM LIN 10-03

BA-3

Site Address: 11400 NW St. Helens Rd. Portland, OR Logged By: NWH		Drilling Date(s): 11/9/10 Drilling Company: Delta Consultants Drilling Method: Hand Auger Sampling Method: Grab	Boring diameter (in.): 3.5 Casing Diameter (in.): N/A Boring Depth (ft.): 14.5 Well Depth (ft.): N/A	Casing Material: N/A Screen Interval: N/A Screen slot size: N/A Sand Pack: N/A				
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic	Soil/Rock Visual Description	PID Reading (ppmv)	Boring Completion	Depth (ft.)
0	Wet	Moist	GM ML		SILTY GRAVEL WITH SAND (Riprap fill); Brown, well-graded (fine sand up to 10" angular cobbles), no odor, no staining (40% cobbles, 20% gravel, 20% sand, 20% silt) SILT; Gray, no odor or sheen			0
1.2	Wet	Moist	SM		Increasing sand, odor present SILTY SAND; Wood and organic debris present			1.2
5	Wet	Moist	ML		SANDY SILT; 60% silt, 20% sand, 20% wood and organics			5
10	Wet	Moist			Faint sheen present Grades lighter gray in color, faint odor, no sheen			10
14.5	Bottom of Boring	Bottom of Boring at 14.5 feet bgs			Unable to collect sample due to sloughing of mud/sand in hole		Bentonite	14.5
15					Bottom of Boring at 14.5 feet bgs			15



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-4**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/9/10	Boring diameter (in.): 3.5	Casing Material: N/A			
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A			
		Drilling Method: Hand Auger	Boring Depth (ft.): 8.25	Screen slot size: N/A			
		Sampling Method: Grab	Well Depth (ft.): N/A	Sand Pack: N/A			
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol Soil/Rock Graphic	Soil/Rock Visual Description	PID Reading (ppmv)	Boring Completion	Depth (ft.)
0			GM	SILTY GRAVEL WITH SAND (Riprap fill); Brown, well-graded (fine sand up to 10" angular cobbles), no odor, no staining (40% cobbles, 20% gravel, 20% sand, 20% silt)			0
			SM	POORLY GRADED SAND; Gray, medium to fine sand, odor			28
				Sheen			41
5				NAPL impregnated			5
				Sheen; sand sloughing into hole			38
				Wood present at 8 feet bgs			10
				Refusal encountered at 8.25 feet bgs			

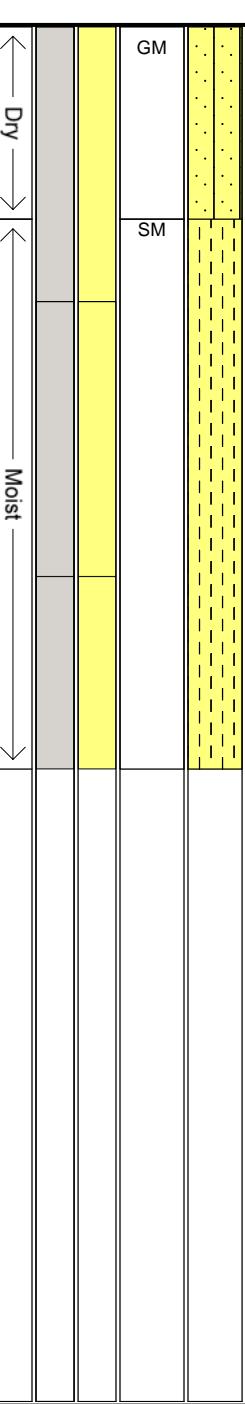


BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-4A**

Site Address: 11400 NW St. Helens Rd. Portland, OR Logged By: NWH		Drilling Date(s): 11/9/10 Drilling Company: Delta Consultants Drilling Method: Hand Auger Sampling Method: Grab	Boring diameter (in.): 3.5 Casing Diameter (in.): N/A Boring Depth (ft.): 2.7 Well Depth (ft.): N/A	Casing Material: N/A Screen Interval: N/A Screen slot size: N/A Sand Pack: N/A
Depth (ft.) Water Level Moisture Content Boring Interval Recovery (%) USCS Symbol	Soil/Rock Graphic	Soil/Rock Visual Description	PID Reading (ppmv)	Boring Completion Depth (ft.)
0 	GM SM	RIP RAP FILL; Brown, large, well-rounded, no odor POORLY GRADED SAND; Brown, medium to fine sand, no odor Refusal encountered at 2.7 feet bgs		0 0 5



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03**

BA-4A

Site Address: 11400 NW St. Helens Rd. Portland, OR	Drilling Date(s): 11/9/10 Drilling Company: Delta Consultants Drilling Method: Hand Auger	Boring diameter (in.): 3.5 Casing Diameter (in.): N/A Boring Depth (ft.): 2.7 Well Depth (ft.): N/A	Casing Material: N/A Screen Interval: N/A Screen slot size: N/A Sand Pack: N/A
--	--	--	---

Depth (ft.)	Water Level	Moisture Content	Boring Interval	Recovery (%)	USCS Symbol	Soil/Rock Graphic	Soil/Rock Visual Description	PID Reading (ppmv)	Boring Completion	Depth (ft.)
"	-									"



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-4B**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/9/10	Boring diameter (in.): 3.5	Casing Material: N/A				
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A				
		Drilling Method: Hand Auger	Boring Depth (ft.): 2.5	Screen slot size: N/A				
		Sampling Method: Grab	Well Depth (ft.): N/A	Sand Pack: N/A				
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic	Soil/Rock Visual Description	PID Reading (ppmv)	Boring Completion	Depth (ft.)
0			GM		RIP RAP FILL; Brown, large, well-rounded, with silt and sand, no odor			0
1			GW		WELL-GRADED GRAVEL WITH SAND (RIVER ROCK); Fine to coarse gravel (0.25 inch to 3.5" diameter), brown sand grading gray with sheen			
			SM		SAND; Gray, medium-fine, with sheen			
2			WOOD		WOOD			
					Refusal encountered at 2.5 feet bgs			
3								
4								
5								



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-4C**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/9/10	Boring diameter (in.): 3.5	Casing Material: N/A				
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A				
		Drilling Method: Hand Auger	Boring Depth (ft.): 2.5	Screen slot size: N/A				
		Sampling Method: Grab	Well Depth (ft.): N/A	Sand Pack: N/A				
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic	Soil/Rock Visual Description	PID Reading (ppmv)	Boring Completion	Depth (ft.)
0			GM		RIP RAP FILL; Brown, large, well-rounded, with silt and sand, no odor			0
1			GW		WELL-GRADED GRAVEL WITH SAND (RIVER ROCK); Fine to coarse gravel (0.25 inch to 3.5" diameter), brown sand grading gray with sheen			
			SM		SAND; Gray, medium-fine, with sheen			
2			Wood		WOOD			
					Refusal encountered at 2.5 feet bgs			
3								
4								
5								



BORING LOG

Client: Kinder Morgan

Project Number: **KM LIN 10-03**

Boring/Well No.

BA-5



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-5A**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/12/10	Boring diameter (in.): 3.5	Casing Material: N/A				
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A				
		Drilling Method: Hand Auger	Boring Depth (ft.): 4	Screen slot size: N/A				
		Sampling Method: Grab	Well Depth (ft.): N/A	Sand Pack: N/A				
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic	Soil/Rock Visual Description	PID Reading (ppmv)	Boring Completion	Depth (ft.)
0			GM		SILTY GRAVEL WITH SAND (Riprap fill); Brown, well-graded (fine sand up to 10" angular cobbles), no odor, no staining (40% cobbles, 20% gravel, 20% sand, 20% silt)			0
1								
2			SW		WELL-GRADED SAND WITH GRAVEL; Brown sand, with rounded and angular gravel, no odor (80% sand, 20% gravel)			
3			SM		SILTY SAND WITH GRAVEL; Dark gray (60% sand, 20% silt, 20% fine-medium gravel)			
4					Refusal encountered at 4 feet bgs			
5								



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-5B**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/12/10	Boring diameter (in.): 3.5	Casing Material: N/A
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A
		Drilling Method: Hand Auger	Boring Depth (ft.): 4.5	Screen slot size: N/A
Soil/Rock Visual Description				
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic
0			GM	
1				
2	Mot		SW	
3			SM	
4				
5				



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-5C**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/12/10	Boring diameter (in.): 3.5	Casing Material: N/A				
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A				
		Drilling Method: Hand Auger	Boring Depth (ft.): 4	Screen slot size: N/A				
		Sampling Method: Grab	Well Depth (ft.): N/A	Sand Pack: N/A				
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic	Soil/Rock Visual Description	PID Reading (ppmv)	Boring Completion	Depth (ft.)
0			GM		SILTY GRAVEL WITH SAND (Riprap fill); Brown, well-graded (fine sand up to 10" angular cobbles), no odor, no staining (40% cobbles, 20% gravel, 20% sand, 20% silt)			0
1								
2			SW		WELL-GRADED SAND WITH GRAVEL; Brown sand, with rounded and angular gravel, no odor (80% sand, 20% gravel)			
3			SM		SILTY SAND WITH GRAVEL; Dark gray (60% sand, 20% silt, 20% fine-medium gravel) Odor and sheen present			
4					Refusal encountered at 4 feet bgs			
5								



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-5D**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/12/10	Boring diameter (in.): 3.5	Casing Material: N/A
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A
		Drilling Method: Hand Auger	Boring Depth (ft.): 4.5	Screen slot size: N/A
Soil/Rock Visual Description				
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic
0			GM	↑
1				↑
2	Mot		SW	^ ^ ^ ^ ^ ^ ^ ^ ^ ^
3			SM	- - - - -
4				
5				

SILTY GRAVEL WITH SAND (Riprap fill): Brown, well-graded (fine sand up to 10" angular cobbles), no odor, no staining (40% cobbles, 20% gravel, 20% sand, 20% silt)

WELL-GRADED SAND WITH GRAVEL: Brown sand, with rounded and angular gravel, no odor (80% sand, 20% gravel)

SILTY SAND WITH GRAVEL: Dark gray (60% sand, 20% silt, 20% fine-medium gravel)

Refusal encountered at 4.5 feet bgs

Bentonite

Boring Completion

PID Reading (ppmv)

Depth (ft.)



BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-5E**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/12/10	Boring diameter (in.): 3.5	Casing Material: N/A			
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A			
		Drilling Method: Hand Auger	Boring Depth (ft.): 3.5	Screen slot size: N/A			
Soil/Rock Visual Description							
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic	PID Reading (ppmv)	Boring Completion	Depth (ft.)
0			GM	SILTY GRAVEL WITH SAND (Riprap fill); Brown, well-graded (fine sand up to 10" angular cobbles), no odor, no staining (40% cobbles, 20% gravel, 20% sand, 20% silt)			0
1							
2							
3							
4							
5							



BORING LOG

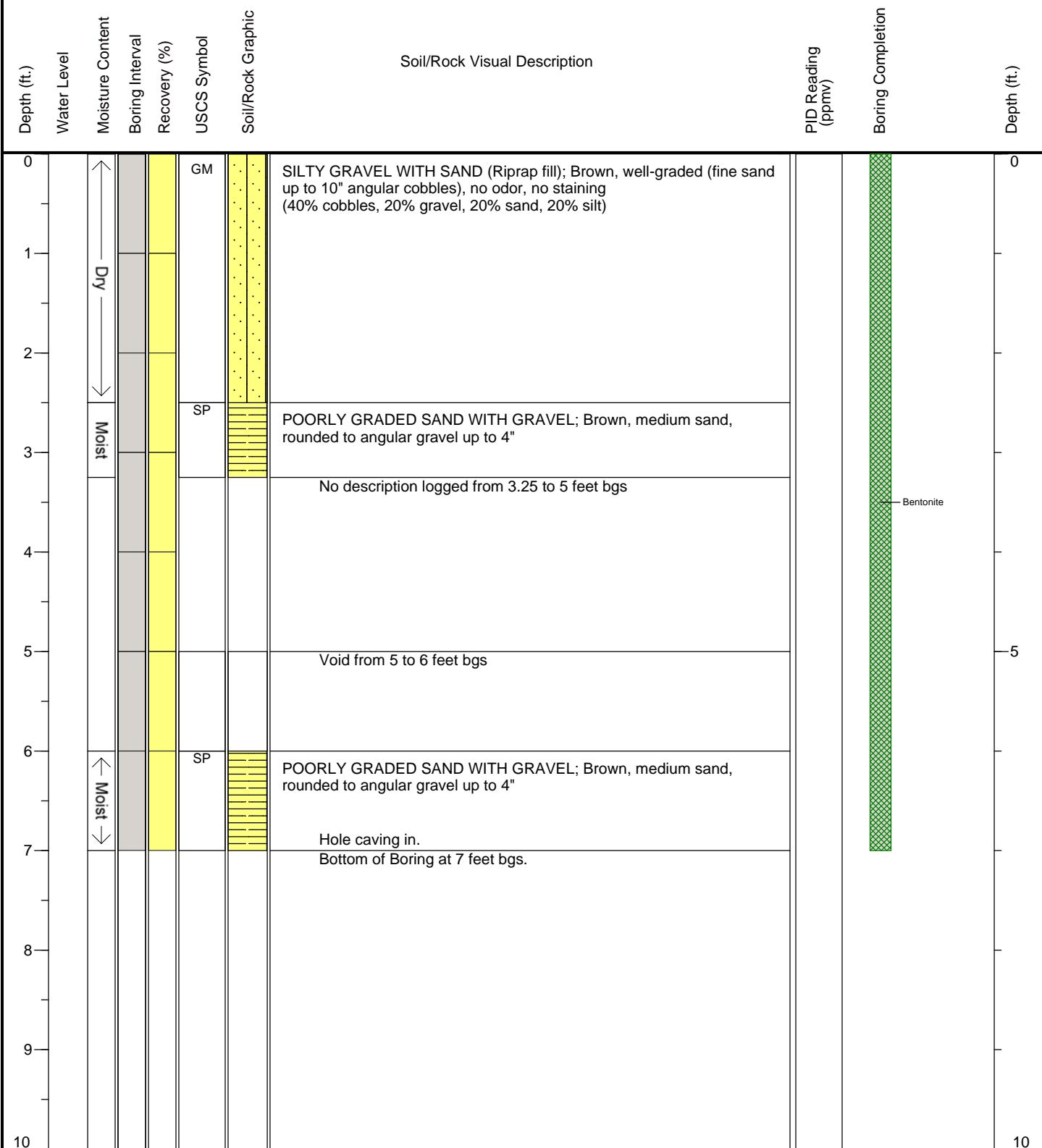
Client: Kinder Morgan

Project Number: **KM LIN 10-03**

Boring/Well No.

BA-6A

Site Address: 11400 NW St. Helens Rd. Portland, OR	Drilling Date(s): 11/11/10 Drilling Company: Delta Consultants Drilling Method: Hand Auger	Boring diameter (in.): 3.5 Casing Diameter (in.): N/A Boring Depth (ft.): 7 Well Depth (ft.): N/A	Casing Material: N/A Screen Interval: N/A Screen slot size: N/A Sand Pack: N/A
Logged By: NWH	Sampling Method: Grab		





BORING LOG

Client: **Kinder Morgan**

Boring/Well No.

Project Number: **KM LIN 10-03****BA-6B**

Site Address: 11400 NW St. Helens Rd. Portland, OR		Drilling Date(s): 11/11/10	Boring diameter (in.): 3.5	Casing Material: N/A
Logged By: NWH		Drilling Company: Delta Consultants	Casing Diameter (in.): N/A	Screen Interval: N/A
		Drilling Method: Hand Auger	Boring Depth (ft.): 5.5	Screen slot size: N/A
		Sampling Method: Grab	Well Depth (ft.): N/A	Sand Pack: N/A
Depth (ft.)	Water Level	Moisture Content Boring Interval Recovery (%)	USCS Symbol	Soil/Rock Graphic
0			GM	
1				
2				
3				
4			SP	
5				
6				
7				
8				
9				
10				

Soil/Rock Visual Description

1
2
3
4
5
6
7
8
9

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Portland

9405 SW Nimbus Ave.

Beaverton, OR 97008

Tel: (503) 906-9200

[TestAmerica Job ID: PTK0558](#)

TestAmerica Sample Delivery Group: PTK0558

Client Project/Site: PTKM

Client Project Description: Linnton Terminal

For:

Delta Consultants - Portland

4640 SW Macadam Avenue, Suite 110

Portland, OR 97239

Attn: Tim Browning

Estella K Rieben

Authorized for release by:

11/30/2010 4:58 PM

Estella Rieben

Project Manager

Estella.Rieben@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Definitions	4
Detection Summary	5
Client Sample Results	10
QC Sample Results	46
Certification Summary	70
Chain of Custody	71

Sample Summary

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
PTK0558-01	BA-1-8	Soil	11/11/10 12:15	11/15/10 14:35
PTK0558-02	BA-1-11.5	Soil	11/11/10 13:00	11/15/10 14:35
PTK0558-03	BA-2-4.5	Soil	11/11/10 09:30	11/15/10 14:35
PTK0558-04	BA-2-6.5	Soil	11/11/10 10:00	11/15/10 14:35
PTK0558-05	BA-3-4.5	Soil	11/09/10 14:00	11/15/10 14:35
PTK0558-06	BA-3-8	Soil	11/09/10 14:30	11/15/10 14:35
PTK0558-07	BA-4-5	Soil	11/12/10 12:45	11/15/10 14:35
PTK0558-08	BA-5-4.5	Soil	11/12/10 11:50	11/15/10 14:35
PTK0558-09	BA-5c-3.5	Soil	11/12/10 10:00	11/15/10 14:35
PTK0558-10	Rinsate	Water	11/12/10 14:00	11/15/10 14:35
PTK0558-11	BA-1-9.5	Soil	11/10/10 12:15	11/15/10 14:35

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Qualifier Definition/Glossary

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Qualifiers

GCMS Volatiles

Qualifier	Qualifier Description
A-01	The MS/MSD were below the acceptance limits.
A-01a	Weight of the sample is below of the optimum weight of 9.01-10.99. Reporting limit raised.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.

GC Volatiles

Qualifier	Qualifier Description
A-01a	Weight of the sample is below of the optimum weight of 9.01-10.99. Reporting limit raised.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
Q8	Detected hydrocarbons in the gasoline range appear to be due to overlap of diesel range hydrocarbons.
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.

Semivolatiles

Qualifier	Qualifier Description
ID3	Due to matrix unable to resolve Benzofluoranthene isomers. Value reported only in Benzo(b) category represents Total Benzo(b+k)fluoranthene.
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.
RL1	Reporting limit raised due to sample matrix effects.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
Z9	Unable to calculate surrogate recovery due to matrix interference.

Metals

Qualifier	Qualifier Description
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).

Fuels

Qualifier	Qualifier Description
Q11	Detected hydrocarbons in the diesel range do not have a distinct diesel pattern and may be due to heavily weathered diesel.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
Z9	Unable to calculate surrogate recovery due to matrix interference.

Glossary

Glossary	Glossary Description
☀	Listed under the "D" column to designate that the result is reported on a dry weight basis.

Detection Summary

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Client Sample ID: BA-1-8

Lab Sample ID: PTK0558-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	59.6		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Acenaphthylene	19.6		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Anthracene	34.6		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (a) anthracene	59.8		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (a) pyrene	89.7		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (b) fluoranthene	104		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (ghi) perylene	110		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (k) fluoranthene	85.8		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Chrysene	102		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Dibenzo (a,h) anthracene	23.8		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Fluoranthene	127		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Fluorene	30.5		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Indeno (1,2,3-cd) pyrene	92.7		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Phenanthrene	54.1		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Pyrene	125		16.8		ug/kg dry	1	⊗	EPA 8270m	total
Arsenic	2.58		0.636		mg/kg dry	10	⊗	EPA 6020	total
Barium	172		0.636		mg/kg dry	10	⊗	EPA 6020	total
Chromium	18.1		1.27		mg/kg dry	10	⊗	EPA 6020	total
Copper	16.5		1.27		mg/kg dry	10	⊗	EPA 6020	total
Lead	29.2		0.636		mg/kg dry	10	⊗	EPA 6020	total
Zinc	82.4		6.36		mg/kg dry	10	⊗	EPA 6020	total
Diesel Range Organics	131	Q11		15.8	mg/kg dry	1	⊗	NWTPH-Dx	total
Residual Range/Heavy Oil Organics	231			31.5	mg/kg dry	1	⊗	NWTPH-Dx	total

Client Sample ID: BA-1-11.5

Lab Sample ID: PTK0558-02

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	21.9		18.1		ug/kg dry	1	⊗	EPA 8270m	total
Fluoranthene	45.9		18.1		ug/kg dry	1	⊗	EPA 8270m	total
Phenanthrene	25.3		18.1		ug/kg dry	1	⊗	EPA 8270m	total
Pyrene	38.1		18.1		ug/kg dry	1	⊗	EPA 8270m	total
Arsenic	5.45		0.685		mg/kg dry	10	⊗	EPA 6020	total
Barium	185		0.685		mg/kg dry	10	⊗	EPA 6020	total
Chromium	32.4		1.37		mg/kg dry	10	⊗	EPA 6020	total
Copper	20.2		1.37		mg/kg dry	10	⊗	EPA 6020	total
Lead	15.4		0.685		mg/kg dry	10	⊗	EPA 6020	total
Zinc	74.7		6.85		mg/kg dry	10	⊗	EPA 6020	total

Client Sample ID: BA-2-4.5

Lab Sample ID: PTK0558-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Hydrocarbons	45.8	Q8	14.7		mg/kg dry	50	⊗	NW TPH-Gx	total
Acenaphthene	144		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Anthracene	81.6		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (a) anthracene	72.6		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (a) pyrene	97.1		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (b) fluoranthene	69.8		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (ghi) perylene	105		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (k) fluoranthene	59.7		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Chrysene	89.8		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Fluoranthene	255		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Fluorene	233		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Indeno (1,2,3-cd) pyrene	65.5		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Phenanthrene	534		19.5		ug/kg dry	1	⊗	EPA 8270m	total

Detection Summary

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Client Sample ID: BA-2-4.5 (Continued)

Lab Sample ID: PTK0558-03

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	366		19.5		ug/kg dry	1	⊗	EPA 8270m	total
Arsenic	6.25		0.711		mg/kg dry	10	⊗	EPA 6020	total
Barium	154		0.711		mg/kg dry	10	⊗	EPA 6020	total
Chromium	26.3		1.42		mg/kg dry	10	⊗	EPA 6020	total
Copper	27.6		1.42		mg/kg dry	10	⊗	EPA 6020	total
Lead	16.4		0.711		mg/kg dry	10	⊗	EPA 6020	total
Zinc	83.2		7.11		mg/kg dry	10	⊗	EPA 6020	total
Diesel Range Organics	297	Q11		18.1	mg/kg dry	1	⊗	NWTPH-Dx	total
Residual Range/Heavy Oil Organics	139			36.2	mg/kg dry	1	⊗	NWTPH-Dx	total

Client Sample ID: BA-2-6.5

Lab Sample ID: PTK0558-04

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	1450	A-01a	274		ug/kg dry	100	⊗	EPA 8260B	total
1,1,2,2-Tetrachloroethane	378	A-01a	274		ug/kg dry	100	⊗	EPA 8260B	total
Gasoline Range Hydrocarbons	501	Q8	12.7		mg/kg dry	50	⊗	NW TPH-Gx	total
Acenaphthene	11000		3830		ug/kg dry	200	⊗	EPA 8270m	total
Anthracene	5810		3830		ug/kg dry	200	⊗	EPA 8270m	total
Benzo (a) anthracene	3140		192		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (a) pyrene	1060		192		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (b) fluoranthene	1250		192		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (ghi) perylene	273		192		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (k) fluoranthene	1020		192		ug/kg dry	10	⊗	EPA 8270m	total
Chrysene	3110		192		ug/kg dry	10	⊗	EPA 8270m	total
Fluoranthene	22600		3830		ug/kg dry	200	⊗	EPA 8270m	total
Fluorene	16400		3830		ug/kg dry	200	⊗	EPA 8270m	total
Indeno (1,2,3-cd) pyrene	264		192		ug/kg dry	10	⊗	EPA 8270m	total
Phenanthrene	60300		3830		ug/kg dry	200	⊗	EPA 8270m	total
Pyrene	14900		3830		ug/kg dry	200	⊗	EPA 8270m	total
Arsenic	9.66		0.693		mg/kg dry	10	⊗	EPA 6020	total
Barium	145		0.693		mg/kg dry	10	⊗	EPA 6020	total
Chromium	24.1		1.39		mg/kg dry	10	⊗	EPA 6020	total
Copper	24.5		1.39		mg/kg dry	10	⊗	EPA 6020	total
Lead	31.4		0.693		mg/kg dry	10	⊗	EPA 6020	total
Zinc	87.2		6.93		mg/kg dry	10	⊗	EPA 6020	total
Diesel Range Organics	11400	Q11		89.1	mg/kg dry	5	⊗	NWTPH-Dx	total
Residual Range/Heavy Oil Organics	1390			178	mg/kg dry	5	⊗	NWTPH-Dx	total

Client Sample ID: BA-3-4.5

Lab Sample ID: PTK0558-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Hydrocarbons - RE2	54.0	Q8	12.5		mg/kg dry	50	⊗	NW TPH-Gx	total
Acenaphthene	23.6		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Anthracene	24.5		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (a) anthracene	41.8		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (a) pyrene	88.0		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (b) fluoranthene	65.5		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (ghi) perylene	104		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Benzo (k) fluoranthene	44.1		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Chrysene	58.8		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Fluoranthene	78.6		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Fluorene	28.6		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Indeno (1,2,3-cd) pyrene	66.4		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Phenanthrene	47.5		20.0		ug/kg dry	1	⊗	EPA 8270m	total

TestAmerica Portland

Detection Summary

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Client Sample ID: BA-3-4.5 (Continued)

Lab Sample ID: PTK0558-05

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	211		20.0		ug/kg dry	1	⊗	EPA 8270m	total
Arsenic	7.86		0.753		mg/kg dry	10	⊗	EPA 6020	total
Barium	151		0.753		mg/kg dry	10	⊗	EPA 6020	total
Chromium	27.4		1.51		mg/kg dry	10	⊗	EPA 6020	total
Copper	26.3		1.51		mg/kg dry	10	⊗	EPA 6020	total
Lead	16.4		0.753		mg/kg dry	10	⊗	EPA 6020	total
Zinc	81.8		7.53		mg/kg dry	10	⊗	EPA 6020	total
Diesel Range Organics	118	Q11		18.7	mg/kg dry	1	⊗	NWTPH-Dx	total
Residual Range/Heavy Oil Organics	92.1			37.4	mg/kg dry	1	⊗	NWTPH-Dx	total

Client Sample ID: BA-3-8

Lab Sample ID: PTK0558-06

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Hydrocarbons - RE1	77.1	Q8	20.0		ug/kg dry	50	⊗	NW TPH-Gx	total
Acenaphthene	58.0		21.5		ug/kg dry	1	⊗	EPA 8270m	total
Chrysene	43.4		21.5		ug/kg dry	1	⊗	EPA 8270m	total
Fluoranthene	49.5		21.5		ug/kg dry	1	⊗	EPA 8270m	total
Phenanthrene	131		21.5		ug/kg dry	1	⊗	EPA 8270m	total
Pyrene	90.7		21.5		ug/kg dry	1	⊗	EPA 8270m	total
Arsenic	9.75		0.778		mg/kg dry	10	⊗	EPA 6020	total
Barium	140		0.778		mg/kg dry	10	⊗	EPA 6020	total
Chromium	19.0		1.56		mg/kg dry	10	⊗	EPA 6020	total
Copper	25.0		1.56		mg/kg dry	10	⊗	EPA 6020	total
Lead	10.8		0.778		mg/kg dry	10	⊗	EPA 6020	total
Zinc	87.1		7.78		mg/kg dry	10	⊗	EPA 6020	total
Diesel Range Organics	198	Q11		19.7	mg/kg dry	1	⊗	NWTPH-Dx	total
Residual Range/Heavy Oil Organics	94.9			39.4	mg/kg dry	1	⊗	NWTPH-Dx	total

Client Sample ID: BA-4-5

Lab Sample ID: PTK0558-07

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butylbenzene	40400	A-01a	16500		ug/kg dry	1000	⊗	EPA 8260B	total
sec-Butylbenzene	41200	A-01a	3290		ug/kg dry	1000	⊗	EPA 8260B	total
Isopropylbenzene	38500	A-01a	6590		ug/kg dry	1000	⊗	EPA 8260B	total
n-Propylbenzene	42100	A-01a	3290		ug/kg dry	1000	⊗	EPA 8260B	total
1,1,2,2-Tetrachloroethane	7120	A-01a	3290		ug/kg dry	1000	⊗	EPA 8260B	total
Gasoline Range Hydrocarbons - RE1	11800	Q8	558		mg/kg dry	2000	⊗	NW TPH-Gx	total
Acenaphthene	16900		3960		ug/kg dry	50	⊗	EPA 8270m	total
Anthracene	7400		791		ug/kg dry	10	⊗	EPA 8270m	total
Benz(a)anthracene	1020		791		ug/kg dry	10	⊗	EPA 8270m	total
Benz(a)pyrene	953		791		ug/kg dry	10	⊗	EPA 8270m	total
Chrysene	1820		791		ug/kg dry	10	⊗	EPA 8270m	total
Fluoranthene	3190		791		ug/kg dry	10	⊗	EPA 8270m	total
Fluorene	41700		3960		ug/kg dry	50	⊗	EPA 8270m	total
Phenanthrene	61700		3960		ug/kg dry	50	⊗	EPA 8270m	total
Pyrene	6590		791		ug/kg dry	10	⊗	EPA 8270m	total
Arsenic	5.40		0.596		mg/kg dry	10	⊗	EPA 6020	total
Barium	125		0.596		mg/kg dry	10	⊗	EPA 6020	total
Chromium	21.3		1.19		mg/kg dry	10	⊗	EPA 6020	total
Copper	18.7		1.19		mg/kg dry	10	⊗	EPA 6020	total
Lead	10.3		0.596		mg/kg dry	10	⊗	EPA 6020	total
Zinc	55.6		5.96		mg/kg dry	10	⊗	EPA 6020	total
Diesel Range Organics	96300	Q11	738		mg/kg dry	50	⊗	NWTPH-Dx	total
Residual Range/Heavy Oil Organics	7560		1480		mg/kg dry	50	⊗	NWTPH-Dx	total

TestAmerica Portland

Detection Summary

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Client Sample ID: BA-5-4.5

Lab Sample ID: PTK0558-08

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	1680	A-01a	1150		ug/kg dry	500	⊗	EPA 8260B	total
1,1,2,2-Tetrachloroethane	3090	A-01a	1150		ug/kg dry	500	⊗	EPA 8260B	total
Gasoline Range Hydrocarbons - RE1	1750	Q8	106		mg/kg dry	500	⊗	NW TPH-Gx	total
Acenaphthene	1960		177		ug/kg dry	10	⊗	EPA 8270m	total
Anthracene	857		177		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (a) anthracene	254		177		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (a) pyrene	279		177		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (b) fluoranthene	229		177		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (ghi) perylene	246		177		ug/kg dry	10	⊗	EPA 8270m	total
Chrysene	418		177		ug/kg dry	10	⊗	EPA 8270m	total
Fluoranthene	752		177		ug/kg dry	10	⊗	EPA 8270m	total
Fluorene	2860		177		ug/kg dry	10	⊗	EPA 8270m	total
Phenanthrone	7000		177		ug/kg dry	10	⊗	EPA 8270m	total
Pyrene	1330		177		ug/kg dry	10	⊗	EPA 8270m	total
Arsenic	7.50		0.672		mg/kg dry	10	⊗	EPA 6020	total
Barium	160		0.672		mg/kg dry	10	⊗	EPA 6020	total
Chromium	19.8		1.34		mg/kg dry	10	⊗	EPA 6020	total
Copper	16.0		1.34		mg/kg dry	10	⊗	EPA 6020	total
Lead	38.3		0.672		mg/kg dry	10	⊗	EPA 6020	total
Zinc	122		6.72		mg/kg dry	10	⊗	EPA 6020	total
Diesel Range Organics	8540	Q11	83.3		mg/kg dry	5	⊗	NWTPH-Dx	total
Residual Range/Heavy Oil Organics	1240		167		mg/kg dry	5	⊗	NWTPH-Dx	total

Client Sample ID: BA-5c-3.5

Lab Sample ID: PTK0558-09

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	961	A-01a	862		ug/kg dry	200	⊗	EPA 8260B	total
1,1,2,2-Tetrachloroethane	1180	A-01a	431		ug/kg dry	200	⊗	EPA 8260B	total
1,2,4-Trimethylbenzene	2820	A-01a	431		ug/kg dry	200	⊗	EPA 8260B	total
1,3,5-Trimethylbenzene	543	A-01a	431		ug/kg dry	200	⊗	EPA 8260B	total
Gasoline Range Hydrocarbons - RE1	1030	Q8	92.9		mg/kg dry	500	⊗	NW TPH-Gx	total
2-Methylnaphthalene	54200		1930		ug/kg dry	25	⊗	EPA 8270m	total
Acenaphthene	8860		1930		ug/kg dry	25	⊗	EPA 8270m	total
Anthracene	14400		1930		ug/kg dry	25	⊗	EPA 8270m	total
Benzo (a) anthracene	14500		1930		ug/kg dry	25	⊗	EPA 8270m	total
Benzo (a) pyrene	15100		1930		ug/kg dry	25	⊗	EPA 8270m	total
Benzo (b) fluoranthene	6990	ID3	1930		ug/kg dry	25	⊗	EPA 8270m	total
Benzo (ghi) perylene	9030		1930		ug/kg dry	25	⊗	EPA 8270m	total
Chrysene	21600		1930		ug/kg dry	25	⊗	EPA 8270m	total
Fluoranthene	8070		1930		ug/kg dry	25	⊗	EPA 8270m	total
Fluorene	10200		1930		ug/kg dry	25	⊗	EPA 8270m	total
Indeno (1,2,3-cd) pyrene	3360		1930		ug/kg dry	25	⊗	EPA 8270m	total
Phenanthrone	53100		1930		ug/kg dry	25	⊗	EPA 8270m	total
Pyrene	71600		1930		ug/kg dry	25	⊗	EPA 8270m	total
Arsenic	4.56		0.583		mg/kg dry	10	⊗	EPA 6020	total
Barium	125		0.583		mg/kg dry	10	⊗	EPA 6020	total
Chromium	27.5		1.17		mg/kg dry	10	⊗	EPA 6020	total
Copper	21.1		1.17		mg/kg dry	10	⊗	EPA 6020	total
Lead	119		0.583		mg/kg dry	10	⊗	EPA 6020	total
Zinc	249		5.83		mg/kg dry	10	⊗	EPA 6020	total
Diesel Range Organics	24100		1450		mg/kg dry	100	⊗	NWTPH-Dx	total
Residual Range/Heavy Oil Organics	22900		2900		mg/kg dry	100	⊗	NWTPH-Dx	total

Detection Summary

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Client Sample ID: Rinsate

Lab Sample ID: PTK0558-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	0.530		0.500		ug/l	1		EPA 8260B	total
2-Butanone (MEK)	13.8		10.0		ug/l	1		EPA 8260B	total
Chloroform	14.2		0.200		ug/l	1		EPA 8260B	total
Barium	0.00148		0.00100		mg/l	1		EPA 6020	total
Copper	0.0673		0.00200		mg/l	1		EPA 6020	total
Lead	0.00338		0.00100		mg/l	1		EPA 6020	total

Client Sample ID: BA-1-9.5

Lab Sample ID: PTK0558-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	2950		172		ug/kg dry	10	⊗	EPA 8270m	total
Anthracene	996		172		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (a) anthracene	2230		172		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (a) pyrene	650		172		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (b) fluoranthene	818		172		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (ghi) perylene	274		172		ug/kg dry	10	⊗	EPA 8270m	total
Benzo (k) fluoranthene	590		172		ug/kg dry	10	⊗	EPA 8270m	total
Chrysene	1480		172		ug/kg dry	10	⊗	EPA 8270m	total
Fluoranthene	8930		343		ug/kg dry	20	⊗	EPA 8270m	total
Fluorene	2110		172		ug/kg dry	10	⊗	EPA 8270m	total
Indeno (1,2,3-cd) pyrene	246		172		ug/kg dry	10	⊗	EPA 8270m	total
Phenanthrene	4510		172		ug/kg dry	10	⊗	EPA 8270m	total
Pyrene	8080		172		ug/kg dry	10	⊗	EPA 8270m	total
Arsenic	6.16		0.643		mg/kg dry	10	⊗	EPA 6020	total
Barium	170		0.643		mg/kg dry	10	⊗	EPA 6020	total
Chromium	33.3		1.29		mg/kg dry	10	⊗	EPA 6020	total
Copper	36.0		1.29		mg/kg dry	10	⊗	EPA 6020	total
Lead	17.1		0.643		mg/kg dry	10	⊗	EPA 6020	total
Zinc	92.9		6.43		mg/kg dry	10	⊗	EPA 6020	total
Diesel Range Organics	243	Q11	16.0		mg/kg dry	1	⊗	NWTPH-Dx	total
Residual Range/Heavy Oil Organics	274		31.9		mg/kg dry	1	⊗	NWTPH-Dx	total

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B

Client Sample ID: BA-1-8

Date Collected: 11/11/10 12:15

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-01

Matrix: Soil

Percent Solids: 78.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	6750		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Benzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Bromobenzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Bromochloromethane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Bromodichloromethane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Bromoform	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Bromomethane	ND	A-01a	1350		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
2-Butanone (MEK)	ND	A-01a	2700		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
n-Butylbenzene	ND	A-01a	1350		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
sec-Butylbenzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
tert-Butylbenzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Carbon disulfide	ND	A-01a	2700		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Carbon tetrachloride	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Chlorobenzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Chloroethane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Chloroform	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Chloromethane	ND	A-01a	1350		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
2-Chlorotoluene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
4-Chlorotoluene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,2-Dibromo-3-chloropropane	ND	A-01a	1350		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Dibromochloromethane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,2-Dibromoethane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Dibromomethane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,2-Dichlorobenzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,3-Dichlorobenzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,4-Dichlorobenzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Dichlorodifluoromethane	ND	A-01a	1350		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,1-Dichloroethane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,2-Dichloroethane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,1-Dichloroethylene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
cis-1,2-Dichloroethylene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
trans-1,2-Dichloroethene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,2-Dichloropropane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,3-Dichloropropane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
2,2-Dichloropropane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,1-Dichloropropene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
cis-1,3-Dichloropropene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
trans-1,3-Dichloropropene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Ethylbenzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Hexachlorobutadiene	ND	A-01a	1080		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
2-Hexanone	ND	A-01a	2700		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Isopropylbenzene	ND	A-01a	540		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
p-Isopropyltoluene	ND	A-01a	540		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
4-Methyl-2-pentanone	ND	A-01a	1350		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Methyl tert-butyl ether	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Methylene chloride	ND	A-01a	1350		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Naphthalene	ND	A-01a	540		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
n-Propylbenzene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
Styrene	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100
1,1,1,2-Tetrachloroethane	ND	A-01a	270		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:18	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-1-8

Date Collected: 11/11/10 12:15

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-01

Matrix: Soil

Percent Solids: 78.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
Tetrachloroethene	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
Toluene	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
1,2,3-Trichlorobenzene	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
1,2,4-Trichlorobenzene	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
1,1,1-Trichloroethane	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
1,1,2-Trichloroethane	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
Trichloroethene	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
Trichlorofluoromethane	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
1,2,3-Trichloropropane	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
1,2,4-Trimethylbenzene	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
1,3,5-Trimethylbenzene	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
Vinyl chloride	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
o-Xylene	ND	A-01a	270		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
m,p-Xylene	ND	A-01a	540		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:18	100
Surrogate	% Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	85.2	A-01a		75 - 125			11/23/10 09:00	11/23/10 10:18	100
1,2-DCA-d4	86.8	A-01a		75 - 125			11/23/10 09:00	11/23/10 10:18	100
Toluene-d8	92.0	A-01a		75 - 125			11/23/10 09:00	11/23/10 10:18	100
4-BFB	105	A-01a		75 - 125			11/23/10 09:00	11/23/10 10:18	100

Client Sample ID: BA-1-11.5

Date Collected: 11/11/10 13:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-02

Matrix: Soil

Percent Solids: 73

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	5960		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Benzene	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Bromobenzene	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Bromochloromethane	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Bromodichloromethane	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Bromoform	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Bromomethane	ND	A-01a	1190		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
2-Butanone (MEK)	ND	A-01a	2380		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
n-Butylbenzene	ND	A-01a	1190		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
sec-Butylbenzene	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
tert-Butylbenzene	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Carbon disulfide	ND	A-01a	2380		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Carbon tetrachloride	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Chlorobenzene	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Chloroethane	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Chloroform	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Chloromethane	ND	A-01a	1190		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
2-Chlorotoluene	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
4-Chlorotoluene	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
1,2-Dibromo-3-chloropropane	ND	A-01a	1190		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Dibromochloromethane	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
1,2-Dibromoethane	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
Dibromomethane	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
1,2-Dichlorobenzene	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100
1,3-Dichlorobenzene	ND	A-01a	238		ug/kg dry	☀	11/23/10 09:00	11/23/10 10:48	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-1-11.5

Date Collected: 11/11/10 13:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-02

Matrix: Soil

Percent Solids: 73

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Dichlorodifluoromethane	ND	A-01a	1190		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,1-Dichloroethane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,2-Dichloroethane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,1-Dichloroethene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
cis-1,2-Dichloroethene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
trans-1,2-Dichloroethene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,2-Dichloropropane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,3-Dichloropropane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
2,2-Dichloropropane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,1-Dichloropropene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
cis-1,3-Dichloropropene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
trans-1,3-Dichloropropene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Ethylbenzene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Hexachlorobutadiene	ND	A-01a	953		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
2-Hexanone	ND	A-01a	2380		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Isopropylbenzene	ND	A-01a	477		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
p-Isopropyltoluene	ND	A-01a	477		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
4-Methyl-2-pentanone	ND	A-01a	1190		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Methyl tert-butyl ether	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Methylene chloride	ND	A-01a	1190		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Naphthalene	ND	A-01a	477		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
n-Propylbenzene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Styrene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,1,1,2-Tetrachloroethane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,1,2,2-Tetrachloroethane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Tetrachloroethene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Toluene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,2,3-Trichlorobenzene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,2,4-Trichlorobenzene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,1,1-Trichloroethane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,1,2-Trichloroethane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Trichloroethene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Trichlorofluoromethane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,2,3-Trichloropropane	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,2,4-Trimethylbenzene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
1,3,5-Trimethylbenzene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Vinyl chloride	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
o-Xylene	ND	A-01a	238		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
m,p-Xylene	ND	A-01a	477		ug/kg dry	⊗	11/23/10 09:00	11/23/10 10:48	100
Surrogate	% Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	86.5	A-01a		75 - 125			11/23/10 09:00	11/23/10 10:48	100
1,2-DCA-d4	90.1	A-01a		75 - 125			11/23/10 09:00	11/23/10 10:48	100
Toluene-d8	90.6	A-01a		75 - 125			11/23/10 09:00	11/23/10 10:48	100
4-BFB	107	A-01a		75 - 125			11/23/10 09:00	11/23/10 10:48	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B

Client Sample ID: BA-2-4.5

Date Collected: 11/11/10 09:30

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-03

Matrix: Soil

Percent Solids: 68.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	8030		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Benzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Bromobenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Bromochloromethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Bromodichloromethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Bromoform	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Bromomethane	ND	A-01a	1610		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
2-Butanone (MEK)	ND	A-01a	3210		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
n-Butylbenzene	ND	A-01a	1610		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
sec-Butylbenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
tert-Butylbenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Carbon disulfide	ND	A-01a	3210		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Carbon tetrachloride	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Chlorobenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Chloroethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Chloroform	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Chloromethane	ND	A-01a	1610		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
2-Chlorotoluene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
4-Chlorotoluene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,2-Dibromo-3-chloropropane	ND	A-01a	1610		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Dibromochloromethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,2-Dibromoethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Dibromomethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,2-Dichlorobenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,3-Dichlorobenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,4-Dichlorobenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Dichlorodifluoromethane	ND	A-01a	1610		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,1-Dichloroethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,2-Dichloroethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,1-Dichloroethylene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
cis-1,2-Dichloroethylene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
trans-1,2-Dichloroethene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,2-Dichloropropane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,3-Dichloropropane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
2,2-Dichloropropane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,1-Dichloropropene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
cis-1,3-Dichloropropene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
trans-1,3-Dichloropropene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Ethylbenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Hexachlorobutadiene	ND	A-01a	1280		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
2-Hexanone	ND	A-01a	3210		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Isopropylbenzene	ND	A-01a	642		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
p-Isopropyltoluene	ND	A-01a	642		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
4-Methyl-2-pentanone	ND	A-01a	1610		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Methyl tert-butyl ether	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Methylene chloride	ND	A-01a	1610		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Naphthalene	ND	A-01a	642		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
n-Propylbenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Styrene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,1,1,2-Tetrachloroethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-2-4.5

Date Collected: 11/11/10 09:30

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-03

Matrix: Soil

Percent Solids: 68.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Tetrachloroethene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Toluene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,2,3-Trichlorobenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,2,4-Trichlorobenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,1,1-Trichloroethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,1,2-Trichloroethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Trichloroethene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Trichlorofluoromethane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,2,3-Trichloropropane	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,2,4-Trimethylbenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
1,3,5-Trimethylbenzene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Vinyl chloride	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
o-Xylene	ND	A-01a	321		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
m,p-Xylene	ND	A-01a	642		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:55	100
Surrogate	% Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	89.6	A-01a		75 - 125			11/23/10 09:00	11/23/10 11:55	100
1,2-DCA-d4	91.1	A-01a		75 - 125			11/23/10 09:00	11/23/10 11:55	100
Toluene-d8	91.8	A-01a		75 - 125			11/23/10 09:00	11/23/10 11:55	100
4-BFB	111	A-01a		75 - 125			11/23/10 09:00	11/23/10 11:55	100

Client Sample ID: BA-2-6.5

Date Collected: 11/11/10 10:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-04

Matrix: Soil

Percent Solids: 69.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	6850		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Benzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Bromobenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Bromochloromethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Bromodichloromethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Bromoform	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Bromomethane	ND	A-01a	1370		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
2-Butanone (MEK)	ND	A-01a	2740		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
n-Butylbenzene	ND	A-01a	1370		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
sec-Butylbenzene	1450	A-01a							
tert-Butylbenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Carbon disulfide	ND	A-01a	2740		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Carbon tetrachloride	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Chlorobenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Chloroethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Chloroform	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Chloromethane	ND	A-01a	1370		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
2-Chlorotoluene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
4-Chlorotoluene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
1,2-Dibromo-3-chloropropane	ND	A-01a	1370		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Dibromochloromethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
1,2-Dibromoethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
Dibromomethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
1,2-Dichlorobenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100
1,3-Dichlorobenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-2-6.5							Lab Sample ID: PTK0558-04			
							Matrix: Soil			
							Percent Solids: 69.4			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dichlorobenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Dichlorodifluoromethane	ND	A-01a	1370		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,1-Dichloroethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,2-Dichloroethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,1-Dichloroethylene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
cis-1,2-Dichloroethylene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
trans-1,2-Dichloroethylene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,2-Dichloropropane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,3-Dichloropropane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
2,2-Dichloropropane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,1-Dichloropropene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
cis-1,3-Dichloropropene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
trans-1,3-Dichloropropene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Ethylbenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Hexachlorobutadiene	ND	A-01a	1100		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
2-Hexanone	ND	A-01a	2740		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Isopropylbenzene	ND	A-01a	548		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
p-Isopropyltoluene	ND	A-01a	548		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
4-Methyl-2-pentanone	ND	A-01a	1370		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Methyl tert-butyl ether	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Methylene chloride	ND	A-01a	1370		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Naphthalene	ND	A-01a	548		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
n-Propylbenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Styrene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,1,1,2-Tetrachloroethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,1,2,2-Tetrachloroethane	378	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Tetrachloroethene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Toluene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,2,3-Trichlorobenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,2,4-Trichlorobenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,1,1-Trichloroethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,1,2-Trichloroethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Trichloroethene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Trichlorofluoromethane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,2,3-Trichloropropane	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,2,4-Trimethylbenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
1,3,5-Trimethylbenzene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Vinyl chloride	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
o-Xylene	ND	A-01a	274		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
m,p-Xylene	ND	A-01a	548		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:39	100	
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Dibromofluoromethane	92.6	A-01a	75 - 125				11/23/10 09:00	11/23/10 12:39	100	
1,2-DCA-d4	95.4	A-01a	75 - 125				11/23/10 09:00	11/23/10 12:39	100	
Toluene-d8	92.3	A-01a	75 - 125				11/23/10 09:00	11/23/10 12:39	100	
4-BFB	108	A-01a	75 - 125				11/23/10 09:00	11/23/10 12:39	100	

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B

Client Sample ID: BA-3-4.5

Date Collected: 11/09/10 14:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-05

Matrix: Soil

Percent Solids: 66.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	6570		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Benzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Bromobenzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Bromochloromethane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Bromodichloromethane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Bromoform	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Bromomethane	ND	A-01a	1310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
2-Butanone (MEK)	ND	A-01a	2630		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
n-Butylbenzene	ND	A-01a	1310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
sec-Butylbenzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
tert-Butylbenzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Carbon disulfide	ND	A-01a	2630		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Carbon tetrachloride	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Chlorobenzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Chloroethane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Chloroform	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Chloromethane	ND	A-01a	1310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
2-Chlorotoluene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
4-Chlorotoluene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,2-Dibromo-3-chloropropane	ND	A-01a	1310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Dibromochloromethane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,2-Dibromoethane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Dibromomethane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,2-Dichlorobenzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,3-Dichlorobenzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,4-Dichlorobenzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Dichlorodifluoromethane	ND	A-01a	1310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,1-Dichloroethane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,2-Dichloroethane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,1-Dichloroethylene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
cis-1,2-Dichloroethylene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
trans-1,2-Dichloroethene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,2-Dichloropropane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,3-Dichloropropane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
2,2-Dichloropropane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,1-Dichloropropene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
cis-1,3-Dichloropropene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
trans-1,3-Dichloropropene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Ethylbenzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Hexachlorobutadiene	ND	A-01a	1050		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
2-Hexanone	ND	A-01a	2630		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Isopropylbenzene	ND	A-01a	526		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
p-Isopropyltoluene	ND	A-01a	526		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
4-Methyl-2-pentanone	ND	A-01a	1310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Methyl tert-butyl ether	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Methylene chloride	ND	A-01a	1310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Naphthalene	ND	A-01a	526		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
n-Propylbenzene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
Styrene	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100
1,1,1,2-Tetrachloroethane	ND	A-01a	263		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:10	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-3-4.5

Date Collected: 11/09/10 14:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-05

Matrix: Soil

Percent Solids: 66.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
Tetrachloroethene	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
Toluene	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
1,2,3-Trichlorobenzene	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
1,2,4-Trichlorobenzene	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
1,1,1-Trichloroethane	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
1,1,2-Trichloroethane	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
Trichloroethene	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
Trichlorofluoromethane	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
1,2,3-Trichloropropane	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
1,2,4-Trimethylbenzene	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
1,3,5-Trimethylbenzene	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
Vinyl chloride	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
o-Xylene	ND	A-01a	263		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
m,p-Xylene	ND	A-01a	526		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:10	100
Surrogate	% Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	87.5	A-01a		75 - 125			11/23/10 09:00	11/23/10 11:10	100
1,2-DCA-d4	89.2	A-01a		75 - 125			11/23/10 09:00	11/23/10 11:10	100
Toluene-d8	88.3	A-01a		75 - 125			11/23/10 09:00	11/23/10 11:10	100
4-BFB	107	A-01a		75 - 125			11/23/10 09:00	11/23/10 11:10	100

Client Sample ID: BA-3-8

Date Collected: 11/09/10 14:30

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-06

Matrix: Soil

Percent Solids: 62.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	11000		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Benzene	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Bromobenzene	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Bromochloromethane	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Bromodichloromethane	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Bromoform	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Bromomethane	ND	A-01a	2200		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
2-Butanone (MEK)	ND	A-01a	4390		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
n-Butylbenzene	ND	A-01a	2200		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
sec-Butylbenzene	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
tert-Butylbenzene	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Carbon disulfide	ND	A-01a	4390		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Carbon tetrachloride	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Chlorobenzene	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Chloroethane	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Chloroform	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Chloromethane	ND	A-01a	2200		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
2-Chlorotoluene	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
4-Chlorotoluene	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
1,2-Dibromo-3-chloropropane	ND	A-01a	2200		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Dibromochloromethane	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
1,2-Dibromoethane	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
Dibromomethane	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
1,2-Dichlorobenzene	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100
1,3-Dichlorobenzene	ND	A-01a	439		ug/kg dry	☀	11/23/10 09:00	11/23/10 11:32	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-3-8

Date Collected: 11/09/10 14:30

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-06

Matrix: Soil

Percent Solids: 62.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Dichlorodifluoromethane	ND	A-01a	2200		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,1-Dichloroethane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,2-Dichloroethane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,1-Dichloroethene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
cis-1,2-Dichloroethene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
trans-1,2-Dichloroethene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,2-Dichloropropane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,3-Dichloropropane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
2,2-Dichloropropane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,1-Dichloropropene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
cis-1,3-Dichloropropene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
trans-1,3-Dichloropropene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Ethylbenzene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Hexachlorobutadiene	ND	A-01a	1760		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
2-Hexanone	ND	A-01a	4390		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Isopropylbenzene	ND	A-01a	878		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
p-Isopropyltoluene	ND	A-01a	878		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
4-Methyl-2-pentanone	ND	A-01a	2200		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Methyl tert-butyl ether	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Methylene chloride	ND	A-01a	2200		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Naphthalene	ND	A-01a	878		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
n-Propylbenzene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Styrene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,1,1,2-Tetrachloroethane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,1,2,2-Tetrachloroethane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Tetrachloroethene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Toluene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,2,3-Trichlorobenzene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,2,4-Trichlorobenzene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,1,1-Trichloroethane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,1,2-Trichloroethane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Trichloroethene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Trichlorofluoromethane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,2,3-Trichloropropane	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,2,4-Trimethylbenzene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
1,3,5-Trimethylbenzene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Vinyl chloride	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
o-Xylene	ND	A-01a	439		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
m,p-Xylene	ND	A-01a	878		ug/kg dry	⊗	11/23/10 09:00	11/23/10 11:32	100
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	87.8	A-01a	75 - 125				11/23/10 09:00	11/23/10 11:32	100
1,2-DCA-d4	91.4	A-01a	75 - 125				11/23/10 09:00	11/23/10 11:32	100
Toluene-d8	93.2	A-01a	75 - 125				11/23/10 09:00	11/23/10 11:32	100
4-BFB	110	A-01a	75 - 125				11/23/10 09:00	11/23/10 11:32	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B

Client Sample ID: BA-4-5

Date Collected: 11/12/10 12:45

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-07

Matrix: Soil

Percent Solids: 83.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	82400		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Benzene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Bromobenzene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Bromochloromethane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Bromodichloromethane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Bromoform	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Bromomethane	ND	A-01a	16500		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
2-Butanone (MEK)	ND	A-01a	32900		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
n-Butylbenzene	40400	A-01a	16500		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
sec-Butylbenzene	41200	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
tert-Butylbenzene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Carbon disulfide	ND	A-01a	32900		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Carbon tetrachloride	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Chlorobenzene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Chloroethane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Chloroform	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Chloromethane	ND	A-01a	16500		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
2-Chlorotoluene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
4-Chlorotoluene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,2-Dibromo-3-chloropropane	ND	A-01a	16500		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Dibromochloromethane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,2-Dibromoethane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Dibromomethane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,2-Dichlorobenzene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,3-Dichlorobenzene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,4-Dichlorobenzene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Dichlorodifluoromethane	ND	A-01a	16500		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,1-Dichloroethane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,2-Dichloroethane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,1-Dichloroethylene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
cis-1,2-Dichloroethylene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
trans-1,2-Dichloroethene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,2-Dichloropropane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,3-Dichloropropane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
2,2-Dichloropropane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,1-Dichloropropene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
cis-1,3-Dichloropropene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
trans-1,3-Dichloropropene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Ethylbenzene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Hexachlorobutadiene	ND	A-01a	13200		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
2-Hexanone	ND	A-01a	32900		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Isopropylbenzene	38500	A-01a	6590		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
p-Isopropyltoluene	ND	A-01a	6590		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
4-Methyl-2-pentanone	ND	A-01a	16500		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Methyl tert-butyl ether	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Methylene chloride	ND	A-01a	16500		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Naphthalene	ND	A-01a	6590		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
n-Propylbenzene	42100	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
Styrene	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000
1,1,1,2-Tetrachloroethane	ND	A-01a	3290		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:45	1000

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-4-5

Date Collected: 11/12/10 12:45

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-07

Matrix: Soil

Percent Solids: 83.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	7120	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
Tetrachloroethene	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
Toluene	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
1,2,3-Trichlorobenzene	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
1,2,4-Trichlorobenzene	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
1,1,1-Trichloroethane	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
1,1,2-Trichloroethane	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
Trichloroethene	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
Trichlorofluoromethane	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
1,2,3-Trichloropropane	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
1,2,4-Trimethylbenzene	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
1,3,5-Trimethylbenzene	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
Vinyl chloride	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
o-Xylene	ND	A-01a	3290		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
m,p-Xylene	ND	A-01a	6590		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:45	1000
Surrogate	% Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	90.5	A-01a		75 - 125			11/23/10 09:00	11/23/10 13:45	1000
1,2-DCA-d4	94.4	A-01a		75 - 125			11/23/10 09:00	11/23/10 13:45	1000
Toluene-d8	95.2	A-01a		75 - 125			11/23/10 09:00	11/23/10 13:45	1000
4-BFB	108	A-01a		75 - 125			11/23/10 09:00	11/23/10 13:45	1000

Client Sample ID: BA-5-4.5

Date Collected: 11/12/10 11:50

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-08

Matrix: Soil

Percent Solids: 74.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	28700		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Benzene	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Bromobenzene	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Bromochloromethane	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Bromodichloromethane	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Bromoform	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Bromomethane	ND	A-01a	5740		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
2-Butanone (MEK)	ND	A-01a	11500		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
n-Butylbenzene	ND	A-01a	5740		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
sec-Butylbenzene	1680	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
tert-Butylbenzene	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Carbon disulfide	ND	A-01a	11500		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Carbon tetrachloride	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Chlorobenzene	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Chloroethane	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Chloroform	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Chloromethane	ND	A-01a	5740		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
2-Chlorotoluene	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
4-Chlorotoluene	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
1,2-Dibromo-3-chloropropane	ND	A-01a	5740		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Dibromochloromethane	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
1,2-Dibromoethane	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
Dibromomethane	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
1,2-Dichlorobenzene	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500
1,3-Dichlorobenzene	ND	A-01a	1150		ug/kg dry	☀	11/23/10 09:00	11/23/10 13:23	500

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-5-4.5							Lab Sample ID: PTK0558-08			
							Matrix: Soil			
							Percent Solids: 74.4			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dichlorobenzene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Dichlorodifluoromethane	ND	A-01a	5740		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,1-Dichloroethane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,2-Dichloroethane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,1-Dichloroethylene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
cis-1,2-Dichloroethylene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
trans-1,2-Dichloroethylene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,2-Dichloropropane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,3-Dichloropropane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
2,2-Dichloropropane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,1-Dichloropropene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
cis-1,3-Dichloropropene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
trans-1,3-Dichloropropene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Ethylbenzene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Hexachlorobutadiene	ND	A-01a	4590		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
2-Hexanone	ND	A-01a	11500		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Isopropylbenzene	ND	A-01a	2300		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
p-Isopropyltoluene	ND	A-01a	2300		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
4-Methyl-2-pentanone	ND	A-01a	5740		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Methyl tert-butyl ether	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Methylene chloride	ND	A-01a	5740		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Naphthalene	ND	A-01a	2300		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
n-Propylbenzene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Styrene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,1,1,2-Tetrachloroethane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,1,2,2-Tetrachloroethane	3090	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Tetrachloroethene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Toluene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,2,3-Trichlorobenzene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,2,4-Trichlorobenzene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,1,1-Trichloroethane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,1,2-Trichloroethane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Trichloroethene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Trichlorofluoromethane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,2,3-Trichloropropane	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,2,4-Trimethylbenzene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
1,3,5-Trimethylbenzene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Vinyl chloride	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
o-Xylene	ND	A-01a	1150		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
m,p-Xylene	ND	A-01a	2300		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:23	500	
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Dibromofluoromethane	91.8	A-01a	75 - 125				11/23/10 09:00	11/23/10 13:23	500	
1,2-DCA-d4	91.4	A-01a	75 - 125				11/23/10 09:00	11/23/10 13:23	500	
Toluene-d8	92.3	A-01a	75 - 125				11/23/10 09:00	11/23/10 13:23	500	
4-BFB	109	A-01a	75 - 125				11/23/10 09:00	11/23/10 13:23	500	

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B

Client Sample ID: BA-5c-3.5

Date Collected: 11/12/10 10:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-09

Matrix: Soil

Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	10800		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Benzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Bromobenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Bromochloromethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Bromodichloromethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Bromoform	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Bromomethane	ND	A-01a	2160		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
2-Butanone (MEK)	ND	A-01a	4310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
n-Butylbenzene	ND	A-01a	2160		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
sec-Butylbenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
tert-Butylbenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Carbon disulfide	ND	A-01a	4310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Carbon tetrachloride	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Chlorobenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Chloroethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Chloroform	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Chloromethane	ND	A-01a	2160		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
2-Chlorotoluene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
4-Chlorotoluene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,2-Dibromo-3-chloropropane	ND	A-01a	2160		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Dibromochloromethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,2-Dibromoethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Dibromomethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,2-Dichlorobenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,3-Dichlorobenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,4-Dichlorobenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Dichlorodifluoromethane	ND	A-01a	2160		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,1-Dichloroethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,2-Dichloroethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,1-Dichloroethylene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
cis-1,2-Dichloroethylene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
trans-1,2-Dichloroethene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,2-Dichloropropane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,3-Dichloropropane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
2,2-Dichloropropane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,1-Dichloropropene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
cis-1,3-Dichloropropene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
trans-1,3-Dichloropropene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Ethylbenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Hexachlorobutadiene	ND	A-01a	1720		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
2-Hexanone	ND	A-01a	4310		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Isopropylbenzene	ND	A-01a	862		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
p-Isopropyltoluene	961	A-01a		862	ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
4-Methyl-2-pentanone	ND	A-01a	2160		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Methyl tert-butyl ether	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Methylene chloride	ND	A-01a	2160		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Naphthalene	ND	A-01a	862		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
n-Propylbenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Styrene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,1,1,2-Tetrachloroethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-5c-3.5

Date Collected: 11/12/10 10:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-09

Matrix: Soil

Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1180	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Tetrachloroethene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Toluene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,2,3-Trichlorobenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,2,4-Trichlorobenzene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,1,1-Trichloroethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,1,2-Trichloroethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Trichloroethene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Trichlorofluoromethane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,2,3-Trichloropropane	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,2,4-Trimethylbenzene	2820	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
1,3,5-Trimethylbenzene	543	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Vinyl chloride	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
o-Xylene	ND	A-01a	431		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
m,p-Xylene	ND	A-01a	862		ug/kg dry	⊗	11/23/10 09:00	11/23/10 13:01	200
Surrogate	% Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Dibromofluoromethane	89.8	A-01a		75 - 125			11/23/10 09:00	11/23/10 13:01	200
1,2-DCA-d4	90.7	A-01a		75 - 125			11/23/10 09:00	11/23/10 13:01	200
Toluene-d8	89.8	A-01a		75 - 125			11/23/10 09:00	11/23/10 13:01	200
4-BFB	109	A-01a		75 - 125			11/23/10 09:00	11/23/10 13:01	200

Client Sample ID: Rinsate

Date Collected: 11/12/10 14:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/l		11/18/10 10:04	11/18/10 15:38	1
Benzene	ND		0.200		ug/l		11/18/10 10:04	11/18/10 15:38	1
Bromobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Bromoform									
Bromochloromethane	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Bromodichloromethane	0.530		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Bromoform	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Bromomethane	ND		5.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
2-Butanone (MEK)	13.8		10.0		ug/l		11/18/10 10:04	11/18/10 15:38	1
n-Butylbenzene	ND		5.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
sec-Butylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
tert-Butylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Carbon disulfide	ND		10.0		ug/l		11/18/10 10:04	11/18/10 15:38	1
Carbon tetrachloride	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Chlorobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Chloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Chloroform	14.2		0.200		ug/l		11/18/10 10:04	11/18/10 15:38	1
Chloromethane	ND		5.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
2-Chlorotoluene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
4-Chlorotoluene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Dibromochloromethane	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,2-Dibromoethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Dibromomethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,2-Dichlorobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,3-Dichlorobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: Rinsate

Date Collected: 11/12/10 14:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Dichlorodifluoromethane	ND		5.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,1-Dichloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,2-Dichloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,1-Dichloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
cis-1,2-Dichloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
trans-1,2-Dichloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,2-Dichloropropane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,3-Dichloropropane	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
2,2-Dichloropropane	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,1-Dichloropropene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
cis-1,3-Dichloropropene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
trans-1,3-Dichloropropene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Ethylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Hexachlorobutadiene	ND		4.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
2-Hexanone	ND		10.0		ug/l		11/18/10 10:04	11/18/10 15:38	1
Isopropylbenzene	ND		2.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
p-Isopropyltoluene	ND		2.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
4-Methyl-2-pentanone	ND		5.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Methyl tert-butyl ether	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Methylene chloride	ND		5.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Naphthalene	ND		2.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
n-Propylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Styrene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Tetrachloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Toluene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,2,3-Trichlorobenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,2,4-Trichlorobenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,1,1-Trichloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,1,2-Trichloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Trichloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
Trichlorofluoromethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,2,3-Trichloropropane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,2,4-Trimethylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
1,3,5-Trimethylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Vinyl chloride	ND		0.500		ug/l		11/18/10 10:04	11/18/10 15:38	1
o-Xylene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
m,p-Xylene	ND		2.00		ug/l		11/18/10 10:04	11/18/10 15:38	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		80 - 120				11/18/10 10:04	11/18/10 15:38	1
1,2-DCA-d4	96.6		80 - 120				11/18/10 10:04	11/18/10 15:38	1
Toluene-d8	99.6		80 - 120				11/18/10 10:04	11/18/10 15:38	1
4-BFB	99.8		80 - 120				11/18/10 10:04	11/18/10 15:38	1

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B

Client Sample ID: BA-1-9.5

Date Collected: 11/10/10 12:15

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-11

Matrix: Soil

Percent Solids: 77.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	A-01a	7420		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Benzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Bromobenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Bromochloromethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Bromodichloromethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Bromoform	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Bromomethane	ND	A-01a	1480		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
2-Butanone (MEK)	ND	A-01a	2970		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
n-Butylbenzene	ND	A-01a	1480		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
sec-Butylbenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
tert-Butylbenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Carbon disulfide	ND	A-01a	2970		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Carbon tetrachloride	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Chlorobenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Chloroethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Chloroform	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Chloromethane	ND	A-01a	1480		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
2-Chlorotoluene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
4-Chlorotoluene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,2-Dibromo-3-chloropropane	ND	A-01a	1480		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Dibromochloromethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,2-Dibromoethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Dibromomethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,2-Dichlorobenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,3-Dichlorobenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,4-Dichlorobenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Dichlorodifluoromethane	ND	A-01a	1480		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,1-Dichloroethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,2-Dichloroethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,1-Dichloroethylene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
cis-1,2-Dichloroethylene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
trans-1,2-Dichloroethylene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,2-Dichloropropane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,3-Dichloropropane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
2,2-Dichloropropane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,1-Dichloropropene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
cis-1,3-Dichloropropene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
trans-1,3-Dichloropropene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Ethylbenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Hexachlorobutadiene	ND	A-01a	1190		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
2-Hexanone	ND	A-01a	2970		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Isopropylbenzene	ND	A-01a	594		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
p-Isopropyltoluene	ND	A-01a	594		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
4-Methyl-2-pentanone	ND	A-01a	1480		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Methyl tert-butyl ether	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Methylene chloride	ND	A-01a	1480		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Naphthalene	ND	A-01a	594		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
n-Propylbenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Styrene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,1,1,2-Tetrachloroethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Client Sample ID: BA-1-9.5

Date Collected: 11/10/10 12:15

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-11

Matrix: Soil

Percent Solids: 77.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Tetrachloroethene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Toluene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,2,3-Trichlorobenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,2,4-Trichlorobenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,1,1-Trichloroethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,1,2-Trichloroethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Trichloroethene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Trichlorofluoromethane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,2,3-Trichloropropane	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,2,4-Trimethylbenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
1,3,5-Trimethylbenzene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Vinyl chloride	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
o-Xylene	ND	A-01a	297		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
m,p-Xylene	ND	A-01a	594		ug/kg dry	⊗	11/23/10 09:00	11/23/10 12:17	100
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	87.3	A-01a	75 - 125				11/23/10 09:00	11/23/10 12:17	100
1,2-DCA-d4	90.0	A-01a	75 - 125				11/23/10 09:00	11/23/10 12:17	100
Toluene-d8	93.2	A-01a	75 - 125				11/23/10 09:00	11/23/10 12:17	100
4-BFB	112	A-01a	75 - 125				11/23/10 09:00	11/23/10 12:17	100

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method

Client Sample ID: BA-1-8

Date Collected: 11/11/10 12:15

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Lab Sample ID: PTK0558-01		
							Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	A-01a	11.9		mg/kg dry	⊗	11/11/10 12:15	11/22/10 12:03	50
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-TFT (FID)	118	A-01a	50 - 150				11/11/10 12:15	11/22/10 12:03	50

Client Sample ID: BA-1-11.5

Date Collected: 11/11/10 13:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Lab Sample ID: PTK0558-02		
							Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	A-01a	11.0		mg/kg dry	⊗	11/11/10 13:00	11/22/10 12:31	50
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-TFT (FID)	126	A-01a	50 - 150				11/11/10 13:00	11/22/10 12:31	50

Client Sample ID: BA-2-4.5

Date Collected: 11/11/10 09:30

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Lab Sample ID: PTK0558-03		
							Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	45.8	Q8	14.7		mg/kg dry	⊗	11/11/10 09:30	11/22/10 13:00	50
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-TFT (FID)	124		50 - 150				11/11/10 09:30	11/22/10 13:00	50

Client Sample ID: BA-2-6.5

Date Collected: 11/11/10 10:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Lab Sample ID: PTK0558-04		
							Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	501	Q8	12.7		mg/kg dry	⊗	11/11/10 10:00	11/22/10 13:28	50
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-TFT (FID)	126		50 - 150				11/11/10 10:00	11/22/10 13:28	50

Client Sample ID: Rinsate

Date Collected: 11/12/10 14:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Lab Sample ID: PTK0558-10		
							Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		80.0		ug/l		11/18/10 15:08	11/18/10 19:54	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-BFB (FID)	103		50 - 150				11/18/10 15:08	11/18/10 19:54	1

Client Sample ID: BA-1-9.5

Date Collected: 11/10/10 12:15

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Lab Sample ID: PTK0558-11		
							Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	C, A-01a	13.0		mg/kg dry	⊗	11/10/10 12:15	11/22/10 18:18	50
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-TFT (FID)	119	C, A-01a	50 - 150				11/10/10 12:15	11/22/10 18:18	50

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method - RE1

Client Sample ID: BA-3-8

Date Collected: 11/09/10 14:30

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Lab Sample ID: PTK0558-06	Matrix: Soil	Percent Solids: 62.4
Gasoline Range Hydrocarbons	77.1	Q8	20.0		mg/kg dry	⊗	11/19/10 17:30	11/23/10 10:56	50
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-TFT (FID)	121		50 - 150				11/19/10 17:30	11/23/10 10:56	50

Client Sample ID: BA-4-5

Date Collected: 11/12/10 12:45

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Lab Sample ID: PTK0558-07	Matrix: Soil	Percent Solids: 83.9
Gasoline Range Hydrocarbons	11800	Q8	558		mg/kg dry	⊗	11/19/10 17:30	11/23/10 12:21	2000
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-TFT (FID)	117		50 - 150				11/19/10 17:30	11/23/10 12:21	2000

Client Sample ID: BA-5-4.5

Date Collected: 11/12/10 11:50

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Lab Sample ID: PTK0558-08	Matrix: Soil	Percent Solids: 74.4
Gasoline Range Hydrocarbons	1750	Q8	106		mg/kg dry	⊗	11/19/10 17:30	11/23/10 11:24	500
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-TFT (FID)	122		50 - 150				11/19/10 17:30	11/23/10 11:24	500

Client Sample ID: BA-5c-3.5

Date Collected: 11/12/10 10:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Lab Sample ID: PTK0558-09	Matrix: Soil	Percent Solids: 85.8
Gasoline Range Hydrocarbons	1030	Q8	92.9		mg/kg dry	⊗	11/19/10 17:30	11/23/10 11:52	500
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-TFT (FID)	119		50 - 150				11/19/10 17:30	11/23/10 11:52	500

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method - RE2

Client Sample ID: BA-3-4.5

Lab Sample ID: PTK0558-05

Date Collected: 11/09/10 14:00

Matrix: Soil

Date Received: 11/15/10 14:35

Percent Solids: 66.4

Analyte

Result Qualifier

RL

MDL

Unit

D

Prepared

Analyzed

Dil Fac

Gasoline Range Hydrocarbons

54.0

Q8

12.5

mg/kg dry



11/19/10 17:30

11/23/10 10:27

50

Surrogate

% Recovery Qualifier

Limits

Prepared

Analyzed

Dil Fac

a,a,a-TFT (FID)

130

50 - 150

11/19/10 17:30

11/23/10 10:27

50

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: BA-1-8							Lab Sample ID: PTK0558-01			
							Matrix: Soil			
							Percent Solids: 78.6			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
2-Methylnaphthalene	ND		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Acenaphthene	59.6		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Acenaphthylene	19.6		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Anthracene	34.6		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Benzo (a) anthracene	59.8		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Benzo (a) pyrene	89.7		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Benzo (b) fluoranthene	104		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Benzo (ghi) perylene	110		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Benzo (k) fluoranthene	85.8		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Chrysene	102		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Dibenzo (a,h) anthracene	23.8		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Fluoranthene	127		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Fluorene	30.5		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Indeno (1,2,3-cd) pyrene	92.7		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Naphthalene	ND		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Phenanthrene	54.1		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Pyrene	125		16.8		ug/kg dry	⊗	11/16/10 10:10	11/17/10 17:42	1	
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Fluorene-d10	91.3		24 - 125				11/16/10 10:10	11/17/10 17:42	1	
Pyrene-d10	109		41 - 141				11/16/10 10:10	11/17/10 17:42	1	
Benzo (a) pyrene-d12	98.9		38 - 143				11/16/10 10:10	11/17/10 17:42	1	

Client Sample ID: BA-1-11.5							Lab Sample ID: PTK0558-02			
							Matrix: Soil			
							Percent Solids: 73			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
2-Methylnaphthalene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Acenaphthene	21.9		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Acenaphthylene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Anthracene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Benzo (a) anthracene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Benzo (a) pyrene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Benzo (b) fluoranthene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Benzo (ghi) perylene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Benzo (k) fluoranthene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Chrysene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Dibenzo (a,h) anthracene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Fluoranthene	45.9		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Fluorene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Indeno (1,2,3-cd) pyrene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Naphthalene	ND		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Phenanthrene	25.3		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Pyrene	38.1		18.1		ug/kg dry	⊗	11/16/10 10:10	11/17/10 16:43	1	
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Fluorene-d10	75.6		24 - 125				11/16/10 10:10	11/17/10 16:43	1	
Pyrene-d10	79.9		41 - 141				11/16/10 10:10	11/17/10 16:43	1	
Benzo (a) pyrene-d12	70.7		38 - 143				11/16/10 10:10	11/17/10 16:43	1	

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: BA-2-4.5

Date Collected: 11/11/10 09:30

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-03

Matrix: Soil

Percent Solids: 68.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Acenaphthene	144		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Acenaphthylene	ND	RL1	29.3		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Anthracene	81.6		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Benzo (a) anthracene	72.6		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Benzo (a) pyrene	97.1		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Benzo (b) fluoranthene	69.8		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Benzo (ghi) perylene	105		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Benzo (k) fluoranthene	59.7		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Chrysene	89.8		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Dibenzo (a,h) anthracene	ND		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Fluoranthene	255		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Fluorene	233		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Indeno (1,2,3-cd) pyrene	65.5		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Naphthalene	ND	RL1	39.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Phenanthrene	534		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Pyrene	366		19.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 18:11	1
Surrogate	% Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Fluorene-d10	83.6			24 - 125			11/16/10 10:10	11/17/10 18:11	1
Pyrene-d10	94.1			41 - 141			11/16/10 10:10	11/17/10 18:11	1
Benzo (a) pyrene-d12	83.7			38 - 143			11/16/10 10:10	11/17/10 18:11	1

Client Sample ID: BA-2-6.5

Date Collected: 11/11/10 10:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-04

Matrix: Soil

Percent Solids: 69.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		192		ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Acenaphthene	11000			3830	ug/kg dry	⊗	11/16/10 10:10	11/18/10 14:10	200
Acenaphthylene	ND	RL1		575	ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Anthracene	5810			3830	ug/kg dry	⊗	11/16/10 10:10	11/18/10 14:10	200
Benzo (a) anthracene	3140		192		ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Benzo (a) pyrene	1060		192		ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Benzo (b) fluoranthene	1250		192		ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Benzo (ghi) perylene	273		192		ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Benzo (k) fluoranthene	1020		192		ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Chrysene	3110		192		ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Dibenzo (a,h) anthracene	ND		192		ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Fluoranthene	22600			3830	ug/kg dry	⊗	11/16/10 10:10	11/18/10 14:10	200
Fluorene	16400			3830	ug/kg dry	⊗	11/16/10 10:10	11/18/10 14:10	200
Indeno (1,2,3-cd) pyrene	264		192		ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Naphthalene	ND	RL1		383	ug/kg dry	⊗	11/16/10 10:10	11/17/10 22:07	10
Phenanthrene	60300			3830	ug/kg dry	⊗	11/16/10 10:10	11/18/10 14:10	200
Pyrene	14900			3830	ug/kg dry	⊗	11/16/10 10:10	11/18/10 14:10	200
Surrogate	% Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Fluorene-d10	Z9			24 - 125			11/16/10 10:10	11/17/10 22:07	10
Pyrene-d10	Z9			41 - 141			11/16/10 10:10	11/17/10 22:07	10
Benzo (a) pyrene-d12	101			38 - 143			11/16/10 10:10	11/17/10 22:07	10

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: BA-3-4.5							Lab Sample ID: PTK0558-05			
							Matrix: Soil			
							Percent Solids: 66.4			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
2-Methylnaphthalene	ND		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Acenaphthene	23.6		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Acenaphthylene	ND		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Anthracene	24.5		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Benzo (a) anthracene	41.8		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Benzo (a) pyrene	88.0		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Benzo (b) fluoranthene	65.5		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Benzo (ghi) perylene	104		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Benzo (k) fluoranthene	44.1		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Chrysene	58.8		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Dibenzo (a,h) anthracene	ND		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Fluoranthene	78.6		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Fluorene	28.6		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Indeno (1,2,3-cd) pyrene	66.4		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Naphthalene	ND		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Phenanthren	47.5		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Pyrene	211		20.0		ug/kg dry	⊗	11/16/10 10:10	11/17/10 19:10	1	
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Fluorene-d10	80.9		24 - 125				11/16/10 10:10	11/17/10 19:10	1	
Pyrene-d10	99.8		41 - 141				11/16/10 10:10	11/17/10 19:10	1	
Benzo (a) pyrene-d12	89.1		38 - 143				11/16/10 10:10	11/17/10 19:10	1	

Client Sample ID: BA-3-8							Lab Sample ID: PTK0558-06			
							Matrix: Soil			
							Percent Solids: 62.4			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
2-Methylnaphthalene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Acenaphthene	58.0		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Acenaphthylene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Anthracene	ND	RL1	32.2		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Benzo (a) anthracene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Benzo (a) pyrene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Benzo (b) fluoranthene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Benzo (ghi) perylene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Benzo (k) fluoranthene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Chrysene	43.4		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Dibenzo (a,h) anthracene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Fluoranthene	49.5		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Fluorene	ND	RL1	53.6		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Indeno (1,2,3-cd) pyrene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Naphthalene	ND		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Phenanthren	131		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Pyrene	90.7		21.5		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:09	1	
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Fluorene-d10	95.4		24 - 125				11/16/10 10:10	11/17/10 20:09	1	
Pyrene-d10	99.3		41 - 141				11/16/10 10:10	11/17/10 20:09	1	
Benzo (a) pyrene-d12	93.8		38 - 143				11/16/10 10:10	11/17/10 20:09	1	

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: BA-4-5

Date Collected: 11/12/10 12:45

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-07

Matrix: Soil

Percent Solids: 83.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	RL1	3960		ug/kg dry	⊗	11/16/10 10:10	11/18/10 15:09	50
Acenaphthene	16900		3960		ug/kg dry	⊗	11/16/10 10:10	11/18/10 15:09	50
Acenaphthylene	ND	RL1	5930		ug/kg dry	⊗	11/16/10 10:10	11/18/10 15:09	50
Anthracene	7400		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Benzo (a) anthracene	1020		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Benzo (a) pyrene	953		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Benzo (b) fluoranthene	ND		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Benzo (ghi) perylene	ND		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Benzo (k) fluoranthene	ND		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Chrysene	1820		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Dibenzo (a,h) anthracene	ND		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Fluoranthene	3190		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Fluorene	41700		3960		ug/kg dry	⊗	11/16/10 10:10	11/18/10 15:09	50
Indeno (1,2,3-cd) pyrene	ND		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Naphthalene	ND	RL1	5930		ug/kg dry	⊗	11/16/10 10:10	11/18/10 15:09	50
Phenanthrene	61700		3960		ug/kg dry	⊗	11/16/10 10:10	11/18/10 15:09	50
Pyrene	6590		791		ug/kg dry	⊗	11/16/10 10:10	11/17/10 20:39	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Fluorene-d10		Z3	24 - 125				11/16/10 10:10	11/18/10 15:09	50
Pyrene-d10		Z3	41 - 141				11/16/10 10:10	11/17/10 20:39	10
Benzo (a) pyrene-d12		Z3	38 - 143				11/16/10 10:10	11/17/10 20:39	10

Client Sample ID: BA-5-4.5

Date Collected: 11/12/10 11:50

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-08

Matrix: Soil

Percent Solids: 74.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Acenaphthene	1960		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Acenaphthylene	ND	RL1	532		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Anthracene	857		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Benzo (a) anthracene	254		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Benzo (a) pyrene	279		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Benzo (b) fluoranthene	229		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Benzo (ghi) perylene	246		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Benzo (k) fluoranthene	ND		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Chrysene	418		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Dibenzo (a,h) anthracene	ND		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Fluoranthene	752		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Fluorene	2860		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Indeno (1,2,3-cd) pyrene	ND		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Naphthalene	ND	RL1	532		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Phenanthrene	7000		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Pyrene	1330		177		ug/kg dry	⊗	11/16/10 10:10	11/17/10 21:09	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Fluorene-d10		Z9	24 - 125				11/16/10 10:10	11/17/10 21:09	10
Pyrene-d10		112	41 - 141				11/16/10 10:10	11/17/10 21:09	10
Benzo (a) pyrene-d12		105	38 - 143				11/16/10 10:10	11/17/10 21:09	10

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: BA-5c-3.5

Date Collected: 11/12/10 10:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-09

Matrix: Soil

Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	54200		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Acenaphthene	8860		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Acenaphthylene	ND		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Anthracene	14400		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Benzo (a) anthracene	14500		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Benzo (a) pyrene	15100		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Benzo (b) fluoranthene	6990	ID3	1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Benzo (ghi) perylene	9030		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Benzo (k) fluoranthene	ND	ID3	1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Chrysene	21600		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Dibenzo (a,h) anthracene	ND		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Fluoranthene	8070		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Fluorene	10200		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Indeno (1,2,3-cd) pyrene	3360		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Naphthalene	ND		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Phenanthrene	53100		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Pyrene	71600		1930		ug/kg dry	⊗	11/16/10 10:10	11/22/10 17:38	25
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Fluorene-d10		Z3	24 - 125				11/16/10 10:10	11/22/10 17:38	25
Pyrene-d10		Z3	41 - 141				11/16/10 10:10	11/22/10 17:38	25
Benzo (a) pyrene-d12		Z3	38 - 143				11/16/10 10:10	11/22/10 17:38	25

Client Sample ID: Rinsate

Date Collected: 11/12/10 14:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Acenaphthene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Acenaphthylene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Anthracene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Benzo (a) anthracene	ND		0.00478		ug/l		11/16/10 17:50	11/22/10 11:34	1
Benzo (a) pyrene	ND		0.00478		ug/l		11/16/10 17:50	11/22/10 11:34	1
Benzo (b) fluoranthene	ND		0.00478		ug/l		11/16/10 17:50	11/22/10 11:34	1
Benzo (ghi) perylene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Benzo (k) fluoranthene	ND		0.00478		ug/l		11/16/10 17:50	11/22/10 11:34	1
Chrysene	ND		0.00478		ug/l		11/16/10 17:50	11/22/10 11:34	1
Dibenzo (a,h) anthracene	ND		0.00478		ug/l		11/16/10 17:50	11/22/10 11:34	1
Fluoranthene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Fluorene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Indeno (1,2,3-cd) pyrene	ND		0.00478		ug/l		11/16/10 17:50	11/22/10 11:34	1
Naphthalene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Phenanthrene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Pyrene	ND		0.0957		ug/l		11/16/10 17:50	11/22/10 11:34	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Fluorene-d10	76.8		25 - 125				11/16/10 17:50	11/22/10 11:34	1
Pyrene-d10	92.0		23 - 150				11/16/10 17:50	11/22/10 11:34	1
Benzo (a) pyrene-d12	84.0		10 - 125				11/16/10 17:50	11/22/10 11:34	1

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Client Sample ID: BA-1-9.5

Date Collected: 11/10/10 12:15

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-11

Matrix: Soil

Percent Solids: 77.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Acenaphthene	2950		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Acenaphthylene	ND		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Anthracene	996		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Benzo (a) anthracene	2230		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Benzo (a) pyrene	650		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Benzo (b) fluoranthene	818		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Benzo (ghi) perylene	274		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Benzo (k) fluoranthene	590		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Chrysene	1480		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Dibenzo (a,h) anthracene	ND		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Fluoranthene	8930		343		ug/kg dry	⊗	11/18/10 10:15	11/18/10 17:36	20
Fluorene	2110		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Indeno (1,2,3-cd) pyrene	246		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Naphthalene	ND		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Phenanthren	4510		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Pyrene	8080		172		ug/kg dry	⊗	11/18/10 10:15	11/18/10 16:37	10
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Fluorene-d10	97.5		24 - 125				11/18/10 10:15	11/18/10 16:37	10
Pyrene-d10	112		41 - 141				11/18/10 10:15	11/18/10 16:37	10
Benzo (a) pyrene-d12	86.6		38 - 143				11/18/10 10:15	11/18/10 16:37	10

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods

Client Sample ID: BA-1-8

Date Collected: 11/11/10 12:15

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-01

Matrix: Soil

Percent Solids: 78.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.58		0.636		mg/kg dry	⊗	11/18/10 09:08	11/20/10 00:57	10
Barium	172		0.636		mg/kg dry	⊗	11/18/10 09:08	11/20/10 00:57	10
Cadmium	ND		0.636		mg/kg dry	⊗	11/18/10 09:08	11/20/10 00:57	10
Chromium	18.1		1.27		mg/kg dry	⊗	11/18/10 09:08	11/20/10 00:57	10
Copper	16.5		1.27		mg/kg dry	⊗	11/18/10 09:08	11/20/10 00:57	10
Lead	29.2		0.636		mg/kg dry	⊗	11/18/10 09:08	11/20/10 00:57	10
Selenium	ND		0.636		mg/kg dry	⊗	11/18/10 09:08	11/20/10 00:57	10
Zinc	82.4		6.36		mg/kg dry	⊗	11/18/10 09:08	11/20/10 00:57	10

Client Sample ID: BA-1-11.5

Date Collected: 11/11/10 13:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-02

Matrix: Soil

Percent Solids: 73

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.45		0.685		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:00	10
Barium	185		0.685		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:00	10
Cadmium	ND		0.685		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:00	10
Chromium	32.4		1.37		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:00	10
Copper	20.2		1.37		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:00	10
Lead	15.4		0.685		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:00	10
Selenium	ND		0.685		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:00	10
Zinc	74.7		6.85		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:00	10

Client Sample ID: BA-2-4.5

Date Collected: 11/11/10 09:30

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-03

Matrix: Soil

Percent Solids: 68.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.25		0.711		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:04	10
Barium	154		0.711		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:04	10
Cadmium	ND		0.711		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:04	10
Chromium	26.3		1.42		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:04	10
Copper	27.6		1.42		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:04	10
Lead	16.4		0.711		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:04	10
Selenium	ND		0.711		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:04	10
Zinc	83.2		7.11		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:04	10

Client Sample ID: BA-2-6.5

Date Collected: 11/11/10 10:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-04

Matrix: Soil

Percent Solids: 69.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.66		0.693		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:16	10
Barium	145		0.693		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:16	10
Cadmium	ND		0.693		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:16	10
Chromium	24.1		1.39		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:16	10
Copper	24.5		1.39		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:16	10
Lead	31.4		0.693		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:16	10
Selenium	ND		0.693		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:16	10
Zinc	87.2		6.93		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:16	10

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods

Client Sample ID: BA-3-4.5

Date Collected: 11/09/10 14:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-05

Matrix: Soil

Percent Solids: 66.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.86		0.753		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:20	10
Barium	151		0.753		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:20	10
Cadmium	ND		0.753		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:20	10
Chromium	27.4		1.51		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:20	10
Copper	26.3		1.51		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:20	10
Lead	16.4		0.753		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:20	10
Selenium	ND		0.753		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:20	10
Zinc	81.8		7.53		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:20	10

Client Sample ID: BA-3-8

Date Collected: 11/09/10 14:30

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-06

Matrix: Soil

Percent Solids: 62.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.75		0.778		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:24	10
Barium	140		0.778		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:24	10
Cadmium	ND		0.778		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:24	10
Chromium	19.0		1.56		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:24	10
Copper	25.0		1.56		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:24	10
Lead	10.8		0.778		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:24	10
Selenium	ND		0.778		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:24	10
Zinc	87.1		7.78		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:24	10

Client Sample ID: BA-4-5

Date Collected: 11/12/10 12:45

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-07

Matrix: Soil

Percent Solids: 83.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.40		0.596		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:28	10
Barium	125		0.596		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:28	10
Cadmium	ND		0.596		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:28	10
Chromium	21.3		1.19		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:28	10
Copper	18.7		1.19		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:28	10
Lead	10.3		0.596		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:28	10
Selenium	ND		0.596		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:28	10
Zinc	55.6		5.96		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:28	10

Client Sample ID: BA-5-4.5

Date Collected: 11/12/10 11:50

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-08

Matrix: Soil

Percent Solids: 74.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.50		0.672		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:31	10
Barium	160		0.672		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:31	10
Cadmium	ND		0.672		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:31	10
Chromium	19.8		1.34		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:31	10
Copper	16.0		1.34		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:31	10
Lead	38.3		0.672		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:31	10
Selenium	ND		0.672		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:31	10
Zinc	122		6.72		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:31	10

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods

Client Sample ID: BA-5c-3.5

Date Collected: 11/12/10 10:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-09

Matrix: Soil

Percent Solids: 85.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.56		0.583		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:35	10
Barium	125		0.583		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:35	10
Cadmium	ND		0.583		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:35	10
Chromium	27.5		1.17		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:35	10
Copper	21.1		1.17		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:35	10
Lead	119		0.583		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:35	10
Selenium	ND		0.583		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:35	10
Zinc	249		5.83		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:35	10

Client Sample ID: Rinsate

Date Collected: 11/12/10 14:00

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-10

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00100		mg/l		11/18/10 13:18	11/19/10 00:33	1
Barium	0.00148		0.00100		mg/l		11/18/10 13:18	11/19/10 00:33	1
Cadmium	ND		0.00100		mg/l		11/18/10 13:18	11/19/10 00:33	1
Chromium	ND		0.00200		mg/l		11/18/10 13:18	11/19/10 00:33	1
Copper	0.0673		0.00200		mg/l		11/18/10 13:18	11/19/10 00:33	1
Lead	0.00338		0.00100		mg/l		11/18/10 13:18	11/19/10 00:33	1
Selenium	ND		0.00100		mg/l		11/18/10 13:18	11/19/10 00:33	1
Zinc	ND		0.0100		mg/l		11/18/10 13:18	11/19/10 00:33	1

Client Sample ID: BA-1-9.5

Date Collected: 11/10/10 12:15

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-11

Matrix: Soil

Percent Solids: 77.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.16		0.643		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:39	10
Barium	170		0.643		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:39	10
Cadmium	ND		0.643		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:39	10
Chromium	33.3		1.29		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:39	10
Copper	36.0		1.29		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:39	10
Lead	17.1		0.643		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:39	10
Selenium	ND		0.643		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:39	10
Zinc	92.9		6.43		mg/kg dry	⊗	11/18/10 09:08	11/20/10 01:39	10

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 7471A - Total Mercury per EPA Method 7471A

Client Sample ID: BA-1-8

Date Collected: 11/11/10 12:15

Date Received: 11/15/10 14:35

Analyte

Mercury

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.119		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:03	1

Lab Sample ID: PTK0558-01

Matrix: Soil

Percent Solids: 78.6

Client Sample ID: BA-1-11.5

Date Collected: 11/11/10 13:00

Date Received: 11/15/10 14:35

Analyte

Mercury

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.117		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:06	1

Lab Sample ID: PTK0558-02

Matrix: Soil

Percent Solids: 73

Client Sample ID: BA-2-4.5

Date Collected: 11/11/10 09:30

Date Received: 11/15/10 14:35

Analyte

Mercury

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.119		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:08	1

Lab Sample ID: PTK0558-03

Matrix: Soil

Percent Solids: 68.3

Client Sample ID: BA-2-6.5

Date Collected: 11/11/10 10:00

Date Received: 11/15/10 14:35

Analyte

Mercury

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.0755		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:11	1

Lab Sample ID: PTK0558-04

Matrix: Soil

Percent Solids: 69.4

Client Sample ID: BA-3-4.5

Date Collected: 11/09/10 14:00

Date Received: 11/15/10 14:35

Analyte

Mercury

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.0800		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:13	1

Lab Sample ID: PTK0558-05

Matrix: Soil

Percent Solids: 66.4

Client Sample ID: BA-3-8

Date Collected: 11/09/10 14:30

Date Received: 11/15/10 14:35

Analyte

Mercury

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.130		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:16	1

Lab Sample ID: PTK0558-06

Matrix: Soil

Percent Solids: 62.4

Client Sample ID: BA-4-5

Date Collected: 11/12/10 12:45

Date Received: 11/15/10 14:35

Analyte

Mercury

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.113		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:18	1

Lab Sample ID: PTK0558-07

Matrix: Soil

Percent Solids: 83.9

Client Sample ID: BA-5-4.5

Date Collected: 11/12/10 11:50

Date Received: 11/15/10 14:35

Analyte

Mercury

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.126		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:20	1

Lab Sample ID: PTK0558-08

Matrix: Soil

Percent Solids: 74.4

Client Sample ID: BA-5c-3.5

Date Collected: 11/12/10 10:00

Date Received: 11/15/10 14:35

Analyte

Mercury

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.115		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:23	1

Lab Sample ID: PTK0558-09

Matrix: Soil

Percent Solids: 85.8

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 7471A - Total Mercury per EPA Method 7471A

Client Sample ID: BA-1-9.5

Date Collected: 11/10/10 12:15

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-11

Matrix: Soil

Percent Solids: 77.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0977		mg/kg dry	⊗	11/18/10 11:26	11/19/10 11:25	1

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Client Sample ID: BA-1-8

Date Collected: 11/11/10 12:15

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	131	Q11	15.8		mg/kg dry	⊗	11/17/10 12:15	11/18/10 21:04	1
Residual Range/Heavy Oil Organics	231		31.5		mg/kg dry	⊗	11/17/10 12:15	11/18/10 21:04	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	94.5		50 - 150				11/17/10 12:15	11/18/10 21:04	1

Client Sample ID: BA-1-11.5

Date Collected: 11/11/10 13:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		17.0		mg/kg dry	⊗	11/17/10 12:15	11/18/10 19:34	1
Residual Range/Heavy Oil Organics	ND		34.0		mg/kg dry	⊗	11/17/10 12:15	11/18/10 19:34	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	97.9		50 - 150				11/17/10 12:15	11/18/10 19:34	1

Client Sample ID: BA-2-4.5

Date Collected: 11/11/10 09:30

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	297	Q11	18.1		mg/kg dry	⊗	11/17/10 12:15	11/18/10 21:22	1
Residual Range/Heavy Oil Organics	139		36.2		mg/kg dry	⊗	11/17/10 12:15	11/18/10 21:22	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	99.8		50 - 150				11/17/10 12:15	11/18/10 21:22	1

Client Sample ID: BA-2-6.5

Date Collected: 11/11/10 10:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	11400	Q11	89.1		mg/kg dry	⊗	11/17/10 12:15	11/19/10 00:28	5
Residual Range/Heavy Oil Organics	1390		178		mg/kg dry	⊗	11/17/10 12:15	11/19/10 00:28	5
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	Z9		50 - 150				11/17/10 12:15	11/19/10 00:28	5

Client Sample ID: BA-3-4.5

Date Collected: 11/09/10 14:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	118	Q11	18.7		mg/kg dry	⊗	11/17/10 12:15	11/18/10 21:58	1
Residual Range/Heavy Oil Organics	92.1		37.4		mg/kg dry	⊗	11/17/10 12:15	11/18/10 21:58	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	93.9		50 - 150				11/17/10 12:15	11/18/10 21:58	1

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Client Sample ID: BA-3-8

Date Collected: 11/09/10 14:30

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	198	Q11	19.7		mg/kg dry	⊗	11/17/10 12:15	11/18/10 22:16	1
Residual Range/Heavy Oil Organics	94.9		39.4		mg/kg dry	⊗	11/17/10 12:15	11/18/10 22:16	1
<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Chlorooctadecane	95.7		50 - 150				11/17/10 12:15	11/18/10 22:16	1

Client Sample ID: BA-4-5

Date Collected: 11/12/10 12:45

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	96300	Q11	738		mg/kg dry	⊗	11/17/10 12:15	11/19/10 00:46	50
Residual Range/Heavy Oil Organics	7560		1480		mg/kg dry	⊗	11/17/10 12:15	11/19/10 00:46	50
<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Chlorooctadecane	Z3		50 - 150				11/17/10 12:15	11/19/10 00:46	50

Client Sample ID: BA-5-4.5

Date Collected: 11/12/10 11:50

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	8540	Q11	83.3		mg/kg dry	⊗	11/17/10 12:15	11/19/10 01:06	5
Residual Range/Heavy Oil Organics	1240		167		mg/kg dry	⊗	11/17/10 12:15	11/19/10 01:06	5
<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Chlorooctadecane	Z9		50 - 150				11/17/10 12:15	11/19/10 01:06	5

Client Sample ID: BA-5c-3.5

Date Collected: 11/12/10 10:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	24100		1450		mg/kg dry	⊗	11/17/10 12:15	11/18/10 18:53	100
Residual Range/Heavy Oil Organics	22900		2900		mg/kg dry	⊗	11/17/10 12:15	11/18/10 18:53	100
<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Chlorooctadecane	Z3		50 - 150				11/17/10 12:15	11/18/10 18:53	100

Client Sample ID: Rinsate

Date Collected: 11/12/10 14:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		0.0962		mg/l		11/18/10 11:15	11/19/10 04:28	1
Residual Range/Heavy Oil Organics	ND		0.481		mg/l		11/18/10 11:15	11/19/10 04:28	1
<i>Surrogate</i>	<i>% Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Chlorooctadecane	94.0		50 - 150				11/18/10 11:15	11/19/10 04:28	1

TestAmerica Job ID: PTK0558

SDG: PTK0558

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Client Sample ID: BA-1-9.5

Date Collected: 11/10/10 12:15

Date Received: 11/15/10 14:35

Lab Sample ID: PTK0558-11

Matrix: Soil

Percent Solids: 77.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	243	Q11	16.0		mg/kg dry	⊗	11/17/10 12:15	11/19/10 01:26	1
Residual Range/Heavy Oil Organics	274		31.9		mg/kg dry	⊗	11/17/10 12:15	11/19/10 01:26	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	98.5		50 - 150				11/17/10 12:15	11/19/10 01:26	1

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: ASTM D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

Client Sample ID: BA-1-8

Date Collected: 11/11/10 12:15

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	78.6		0.0100		% by Weight		11/18/10 08:21	11/20/10 06:55	1

Lab Sample ID: PTK0558-01

Matrix: Soil

Percent Solids: 78.6

Client Sample ID: BA-1-11.5

Date Collected: 11/11/10 13:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	73.0		0.0100		% by Weight		11/18/10 08:21	11/20/10 06:55	1

Lab Sample ID: PTK0558-02

Matrix: Soil

Percent Solids: 73

Client Sample ID: BA-2-4.5

Date Collected: 11/11/10 09:30

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	68.3		0.0100		% by Weight		11/18/10 08:21	11/20/10 06:55	1

Lab Sample ID: PTK0558-03

Matrix: Soil

Percent Solids: 68.3

Client Sample ID: BA-2-6.5

Date Collected: 11/11/10 10:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	69.4		0.0100		% by Weight		11/18/10 08:21	11/20/10 06:55	1

Lab Sample ID: PTK0558-04

Matrix: Soil

Percent Solids: 69.4

Client Sample ID: BA-3-4.5

Date Collected: 11/09/10 14:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	66.4		0.0100		% by Weight		11/18/10 08:21	11/20/10 06:55	1

Lab Sample ID: PTK0558-05

Matrix: Soil

Percent Solids: 66.4

Client Sample ID: BA-3-8

Date Collected: 11/09/10 14:30

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	62.4		0.0100		% by Weight		11/18/10 08:21	11/20/10 06:55	1

Lab Sample ID: PTK0558-06

Matrix: Soil

Percent Solids: 62.4

Client Sample ID: BA-4-5

Date Collected: 11/12/10 12:45

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	83.9		0.0100		% by Weight		11/18/10 08:21	11/20/10 06:55	1

Lab Sample ID: PTK0558-07

Matrix: Soil

Percent Solids: 83.9

Client Sample ID: BA-5-4.5

Date Collected: 11/12/10 11:50

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	74.4		0.0100		% by Weight		11/18/10 08:21	11/20/10 06:55	1

Lab Sample ID: PTK0558-08

Matrix: Soil

Percent Solids: 74.4

Client Sample ID: BA-5c-3.5

Date Collected: 11/12/10 10:00

Date Received: 11/15/10 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Solids	85.8		0.0100		% by Weight		11/18/10 08:21	11/20/10 06:55	1

Lab Sample ID: PTK0558-09

Matrix: Soil

Percent Solids: 85.8

Analytical Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: ASTM D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

Client Sample ID: BA-1-9.5

Date Collected: 11/10/10 12:15

Date Received: 11/15/10 14:35

Analyte

% Solids

Lab Sample ID: PTK0558-11

Matrix: Soil

Percent Solids: 77.8

Result Qualifier

77.8

RL

0.0100

MDL

% by Weight

D

Prepared Analyzed Dil Fac

11/16/10 14:19

11/17/10 07:10

1

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B

Lab Sample ID: 10K0628-BLK1

Matrix: Water

Analysis Batch: 10K0628

Client Sample ID: 10K0628-BLK1

Prep Type: total

Prep Batch: 10K0628_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		25.0		ug/l		11/18/10 10:04	11/18/10 11:37	1
Benzene	ND		0.200		ug/l		11/18/10 10:04	11/18/10 11:37	1
Bromobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Bromochloromethane	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Bromodichloromethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Bromoform	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Bromomethane	ND		5.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
2-Butanone (MEK)	ND		10.0		ug/l		11/18/10 10:04	11/18/10 11:37	1
n-Butylbenzene	ND		5.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
sec-Butylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
tert-Butylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Carbon disulfide	ND		10.0		ug/l		11/18/10 10:04	11/18/10 11:37	1
Carbon tetrachloride	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Chlorobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Chloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Chloroform	ND		0.200		ug/l		11/18/10 10:04	11/18/10 11:37	1
Chloromethane	ND		5.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
2-Chlorotoluene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
4-Chlorotoluene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Dibromochloromethane	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,2-Dibromoethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Dibromomethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,2-Dichlorobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,3-Dichlorobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,4-Dichlorobenzene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Dichlorodifluoromethane	ND		5.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,1-Dichloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,2-Dichloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,1-Dichloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
cis-1,2-Dichloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
trans-1,2-Dichloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,2-Dichloropropane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,3-Dichloropropane	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
2,2-Dichloropropane	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,1-Dichloropropene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
cis-1,3-Dichloropropene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
trans-1,3-Dichloropropene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Ethylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Hexachlorobutadiene	ND		4.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
2-Hexanone	ND		10.0		ug/l		11/18/10 10:04	11/18/10 11:37	1
Isopropylbenzene	ND		2.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
p-Isopropyltoluene	ND		2.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
4-Methyl-2-pentanone	ND		5.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Methyl tert-butyl ether	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Methylene chloride	ND		5.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Naphthalene	ND		2.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
n-Propylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Styrene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0628-BLK1

Matrix: Water

Analysis Batch: 10K0628

Client Sample ID: 10K0628-BLK1

Prep Type: total

Prep Batch: 10K0628_P

Blank Blank

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Tetrachloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Toluene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,2,3-Trichlorobenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,2,4-Trichlorobenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,1,1-Trichloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,1,2-Trichloroethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Trichloroethene	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
Trichlorofluoromethane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,2,3-Trichloropropane	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,2,4-Trimethylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
1,3,5-Trimethylbenzene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
Vinyl chloride	ND		0.500		ug/l		11/18/10 10:04	11/18/10 11:37	1
o-Xylene	ND		1.00		ug/l		11/18/10 10:04	11/18/10 11:37	1
m,p-Xylene	ND		2.00		ug/l		11/18/10 10:04	11/18/10 11:37	1

Blank Blank

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	97.0		80 - 120	11/18/10 10:04	11/18/10 11:37	1
1,2-DCA-d4	93.6		80 - 120	11/18/10 10:04	11/18/10 11:37	1
Toluene-d8	99.8		80 - 120	11/18/10 10:04	11/18/10 11:37	1
4-BFB	99.6		80 - 120	11/18/10 10:04	11/18/10 11:37	1

Lab Sample ID: 10K0628-BS1

Matrix: Water

Analysis Batch: 10K0628

Client Sample ID: 10K0628-BS1

Prep Type: total

Prep Batch: 10K0628_P

Spike LCS LCS

Analyte	Spike Added	Result	Qualifier	Unit	D	% Rec	Limits
Acetone	100	97.5		ug/l		97.5	56 - 141
Benzene	20.0	20.4		ug/l		102	80 - 120
Bromobenzene	20.0	20.4		ug/l		102	78 - 120
Bromochloromethane	20.0	20.4		ug/l		102	76 - 121
Bromodichloromethane	20.0	20.8		ug/l		104	84 - 127
Bromoform	20.0	17.8		ug/l		88.9	55 - 134
Bromomethane	20.0	20.3		ug/l		102	38 - 150
2-Butanone (MEK)	100	93.3		ug/l		93.3	71 - 136
n-Butylbenzene	20.0	17.6		ug/l		87.8	76 - 126
sec-Butylbenzene	20.0	19.4		ug/l		97.0	64 - 129
tert-Butylbenzene	20.0	19.1		ug/l		95.4	71 - 127
Carbon disulfide	40.0	45.1		ug/l		113	58 - 120
Carbon tetrachloride	20.0	20.9		ug/l		104	73 - 134
Chlorobenzene	20.0	20.1		ug/l		100	80 - 124
Chloroethane	20.0	21.5		ug/l		107	79 - 124
Chloroform	20.0	19.6		ug/l		98.0	80 - 120
Chloromethane	20.0	18.4		ug/l		92.0	47 - 146
2-Chlorotoluene	20.0	20.1		ug/l		101	72 - 125
4-Chlorotoluene	20.0	20.3		ug/l		101	77 - 124
1,2-Dibromo-3-chloropropane	20.0	15.7		ug/l		78.7	73 - 134
Dibromochloromethane	20.0	18.9		ug/l		94.4	69 - 138

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0628-BS1

Matrix: Water

Analysis Batch: 10K0628

Client Sample ID: 10K0628-BS1

Prep Type: total

Prep Batch: 10K0628_P

Analyte	Spike Added	LCS		Unit	D	% Rec	% Rec.	Limits
		Result	Qualifier					
1,2-Dibromoethane	20.0	20.5		ug/l		102	80 - 122	
Dibromomethane	20.0	19.4		ug/l		97.1	80 - 120	
1,2-Dichlorobenzene	20.0	18.9		ug/l		94.5	80 - 113	
1,3-Dichlorobenzene	20.0	20.3		ug/l		102	76 - 123	
1,4-Dichlorobenzene	20.0	19.8		ug/l		99.2	73 - 120	
Dichlorodifluoromethane	20.0	21.5		ug/l		107	48 - 140	
1,1-Dichloroethane	20.0	19.6		ug/l		98.2	80 - 120	
1,2-Dichloroethane	20.0	18.8		ug/l		93.8	78 - 123	
1,1-Dichloroethene	20.0	19.8		ug/l		99.1	78 - 120	
cis-1,2-Dichloroethene	20.0	19.5		ug/l		97.4	80 - 120	
trans-1,2-Dichloroethene	20.0	19.6		ug/l		98.1	80 - 120	
1,2-Dichloropropane	20.0	20.4		ug/l		102	80 - 126	
1,3-Dichloropropane	20.0	20.3		ug/l		101	80 - 120	
2,2-Dichloropropane	20.0	19.7		ug/l		98.7	60 - 144	
1,1-Dichloropropene	20.0	20.5		ug/l		103	80 - 120	
cis-1,3-Dichloropropene	20.0	21.0		ug/l		105	80 - 125	
trans-1,3-Dichloropropene	20.0	21.2		ug/l		106	80 - 130	
Ethylbenzene	20.0	20.9		ug/l		104	80 - 120	
Hexachlorobutadiene	20.0	17.0		ug/l		85.2	64 - 145	
2-Hexanone	100	98.0		ug/l		98.0	73 - 139	
Isopropylbenzene	20.0	20.2		ug/l		101	77 - 124	
p-Isopropyltoluene	20.0	18.9		ug/l		94.7	68 - 130	
4-Methyl-2-pentanone	100	96.9		ug/l		96.9	72 - 134	
Methyl tert-butyl ether	20.0	18.8		ug/l		94.1	80 - 129	
Methylene chloride	20.0	20.1		ug/l		101	80 - 120	
Naphthalene	20.0	17.2		ug/l		85.8	72 - 149	
n-Propylbenzene	20.0	20.5		ug/l		102	76 - 128	
Styrene	20.0	19.6		ug/l		98.2	72 - 127	
1,1,1,2-Tetrachloroethane	20.0	21.7		ug/l		108	69 - 138	
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/l		104	77 - 128	
Tetrachloroethene	20.0	20.6		ug/l		103	80 - 124	
Toluene	20.0	20.8		ug/l		104	80 - 124	
1,2,3-Trichlorobenzene	20.0	16.9		ug/l		84.4	69 - 138	
1,2,4-Trichlorobenzene	20.0	17.0		ug/l		84.8	75 - 127	
1,1,1-Trichloroethane	20.0	20.2		ug/l		101	76 - 132	
1,1,2-Trichloroethane	20.0	20.5		ug/l		102	80 - 123	
Trichloroethene	20.0	20.4		ug/l		102	80 - 132	
Trichlorofluoromethane	20.0	22.5		ug/l		113	77 - 137	
1,2,3-Trichloropropane	20.0	19.7		ug/l		98.7	75 - 125	
1,2,4-Trimethylbenzene	20.0	20.3		ug/l		101	73 - 132	
1,3,5-Trimethylbenzene	20.0	20.5		ug/l		102	75 - 132	
Vinyl chloride	20.0	19.2		ug/l		96.1	76 - 133	
o-Xylene	20.0	21.3		ug/l		107	77 - 123	
m,p-Xylene	40.0	41.8		ug/l		105	72 - 127	

Surrogate	LCS		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	103		80 - 120
1,2-DCA-d4	95.4		80 - 120
Toluene-d8	107		80 - 120

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0628-BS1

Matrix: Water

Analysis Batch: 10K0628

Client Sample ID: 10K0628-BS1

Prep Type: total

Prep Batch: 10K0628_P

Surrogate	LCS	LCS	
	% Recovery	Qualifier	Limits
4-BFB	109		80 - 120

Lab Sample ID: 10K0628-BSD1

Matrix: Water

Analysis Batch: 10K0628

Client Sample ID: 10K0628-BSD1

Prep Type: total

Prep Batch: 10K0628_P

Analyte		Spike	LCS Dup	LCS Dup	Unit	D	% Rec.	Limits	RPD	Limit
		Added	Result	Qualifier						
Acetone		100	97.2		ug/l	97.2	56 - 141	0.37	25	
Benzene		20.0	20.3		ug/l	101	80 - 120	0.49	25	
Bromobenzene		20.0	19.9		ug/l	99.4	78 - 120	2.49	25	
Bromoform		20.0	20.5		ug/l	102	76 - 121	0.24	25	
Bromochloromethane		20.0	17.5		ug/l	87.6	55 - 134	1.42	25	
Bromodichloromethane		20.0	21.6		ug/l	108	38 - 150	6.15	25	
2-Butanone (MEK)		100	99.8		ug/l	99.8	71 - 136	6.82	25	
n-Butylbenzene		20.0	17.4		ug/l	86.8	76 - 126	1.09	25	
sec-Butylbenzene		20.0	19.0		ug/l	94.8	64 - 129	2.24	25	
tert-Butylbenzene		20.0	18.7		ug/l	93.4	71 - 127	2.22	25	
Carbon disulfide		40.0	46.0		ug/l	115	58 - 120	2.02	25	
Carbon tetrachloride		20.0	20.8		ug/l	104	73 - 134	0.24	25	
Chlorobenzene		20.0	19.8		ug/l	99.0	80 - 124	1.50	25	
Chloroethane		20.0	20.9		ug/l	105	79 - 124	2.64	25	
Chloroform		20.0	19.3		ug/l	96.7	80 - 120	1.28	25	
Chloromethane		20.0	18.0		ug/l	90.0	47 - 146	2.14	25	
2-Chlorotoluene		20.0	19.8		ug/l	98.8	72 - 125	1.75	25	
4-Chlorotoluene		20.0	19.8		ug/l	99.2	77 - 124	2.04	25	
1,2-Dibromo-3-chloropropane		20.0	16.5		ug/l	82.6	73 - 134	4.78	25	
Dibromochloromethane		20.0	18.7		ug/l	93.6	69 - 138	0.85	25	
1,2-Dibromoethane		20.0	20.5		ug/l	103	80 - 122	0.09	25	
Dibromomethane		20.0	19.4		ug/l	96.8	80 - 120	0.36	25	
1,2-Dichlorobenzene		20.0	18.7		ug/l	93.5	80 - 113	1.06	25	
1,3-Dichlorobenzene		20.0	19.8		ug/l	98.8	76 - 123	2.75	25	
1,4-Dichlorobenzene		20.0	19.6		ug/l	98.2	73 - 120	0.91	25	
Dichlorodifluoromethane		20.0	19.6		ug/l	97.8	48 - 140	9.26	25	
1,1-Dichloroethane		20.0	19.7		ug/l	98.4	80 - 120	0.15	25	
1,2-Dichloroethane		20.0	19.0		ug/l	95.0	78 - 123	1.27	25	
1,1-Dichloroethene		20.0	20.0		ug/l	99.8	78 - 120	0.70	25	
cis-1,2-Dichloroethene		20.0	19.8		ug/l	99.2	80 - 120	1.83	25	
trans-1,2-Dichloroethene		20.0	20.0		ug/l	100	80 - 120	2.12	25	
1,2-Dichloropropane		20.0	20.3		ug/l	101	80 - 126	0.73	25	
1,3-Dichloropropane		20.0	20.2		ug/l	101	80 - 120	0.19	25	
2,2-Dichloropropane		20.0	19.5		ug/l	97.4	60 - 144	1.27	25	
1,1-Dichloropropene		20.0	20.2		ug/l	101	80 - 120	1.42	25	

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0628-BSD1

Matrix: Water

Analysis Batch: 10K0628

Client Sample ID: 10K0628-BSD1

Prep Type: total

Prep Batch: 10K0628_P

Analyte	Spike	LCS Dup	LCS Dup	Unit	D	% Rec.	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
cis-1,3-Dichloropropene	20.0	20.7		ug/l		104	80 - 125	1.20	25
trans-1,3-Dichloropropene	20.0	21.0		ug/l		105	80 - 130	1.09	25
Ethylbenzene	20.0	20.1		ug/l		101	80 - 120	3.70	25
Hexachlorobutadiene	20.0	16.7		ug/l		83.5	64 - 145	2.02	25
2-Hexanone	100	103		ug/l		103	73 - 139	5.34	25
Isopropylbenzene	20.0	19.5		ug/l		97.7	77 - 124	3.27	25
p-Isopropyltoluene	20.0	18.8		ug/l		93.8	68 - 130	0.90	25
4-Methyl-2-pentanone	100	102		ug/l		102	72 - 134	4.77	25
Methyl tert-butyl ether	20.0	19.3		ug/l		96.4	80 - 129	2.47	25
Methylene chloride	20.0	20.1		ug/l		100	80 - 120	0.24	25
Naphthalene	20.0	17.4		ug/l		87.2	72 - 149	1.62	25
n-Propylbenzene	20.0	19.9		ug/l		99.4	76 - 128	2.83	25
Styrene	20.0	19.0		ug/l		95.0	72 - 127	3.31	25
1,1,1,2-Tetrachloroethane	20.0	21.7		ug/l		109	69 - 138	0.32	25
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/l		101	77 - 128	2.44	25
Tetrachloroethene	20.0	20.1		ug/l		100	80 - 124	2.46	25
Toluene	20.0	20.4		ug/l		102	80 - 124	1.70	25
1,2,3-Trichlorobenzene	20.0	17.2		ug/l		85.8	69 - 138	1.65	25
1,2,4-Trichlorobenzene	20.0	17.0		ug/l		84.9	75 - 127	0.05	25
1,1,1-Trichloroethane	20.0	19.9		ug/l		99.3	76 - 132	1.65	25
1,1,2-Trichloroethane	20.0	20.7		ug/l		104	80 - 123	1.07	25
Trichloroethene	20.0	20.3		ug/l		101	80 - 132	0.93	25
Trichlorofluoromethane	20.0	20.8		ug/l		104	77 - 137	7.85	25
1,2,3-Trichloropropane	20.0	19.8		ug/l		98.8	75 - 125	0.15	25
1,2,4-Trimethylbenzene	20.0	19.9		ug/l		99.5	73 - 132	1.94	25
1,3,5-Trimethylbenzene	20.0	20.3		ug/l		101	75 - 132	1.08	25
Vinyl chloride	20.0	18.7		ug/l		93.6	76 - 133	2.64	25
o-Xylene	20.0	20.8		ug/l		104	77 - 123	2.47	25
m,p-Xylene	40.0	40.2		ug/l		101	72 - 127	3.90	25

Surrogate	LCS Dup	LCS Dup	Limits
	% Recovery	Qualifier	
Dibromofluoromethane	102		80 - 120
1,2-DCA-d4	95.2		80 - 120
Toluene-d8	103		80 - 120
4-BFB	104		80 - 120

Lab Sample ID: 10K0756-BLK1

Matrix: Soil

Analysis Batch: 10K0756

Client Sample ID: 10K0756-BLK1

Prep Type: total

Prep Batch: 10K0756_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		2370		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Benzene	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Bromobenzene	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Bromochloromethane	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Bromodichloromethane	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0756-BLK1

Matrix: Soil

Analysis Batch: 10K0756

Client Sample ID: 10K0756-BLK1

Prep Type: total

Prep Batch: 10K0756_P

Analyte	Blank	Blank	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Bromomethane			ND		475		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
2-Butanone (MEK)			ND		950		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
n-Butylbenzene			ND		475		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
sec-Butylbenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
tert-Butylbenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Carbon disulfide			ND		950		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Carbon tetrachloride			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Chlorobenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Chloroethane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Chloroform			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Chloromethane			ND		475		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
2-Chlorotoluene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
4-Chlorotoluene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,2-Dibromo-3-chloropropane			ND		475		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Dibromochloromethane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,2-Dibromoethane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Dibromomethane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,2-Dichlorobenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,3-Dichlorobenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,4-Dichlorobenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Dichlorodifluoromethane			ND		475		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,1-Dichloroethane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,2-Dichloroethane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,1-Dichloroethene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
cis-1,2-Dichloroethene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
trans-1,2-Dichloroethene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,2-Dichloropropane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,3-Dichloropropane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
2,2-Dichloropropane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,1-Dichloropropene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
cis-1,3-Dichloropropene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
trans-1,3-Dichloropropene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Ethylbenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Hexachlorobutadiene			ND		380		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
2-Hexanone			ND		950		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Isopropylbenzene			ND		190		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
p-Isopropyltoluene			ND		190		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
4-Methyl-2-pentanone			ND		475		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Methyl tert-butyl ether			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Methylene chloride			ND		475		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Naphthalene			ND		190		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
n-Propylbenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Styrene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,1,1,2-Tetrachloroethane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,1,2,2-Tetrachloroethane			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Tetrachloroethene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Toluene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,2,3-Trichlorobenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,2,4-Trichlorobenzene			ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0756-BLK1

Matrix: Soil

Analysis Batch: 10K0756

Client Sample ID: 10K0756-BLK1

Prep Type: total

Prep Batch: 10K0756_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,1,2-Trichloroethane	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Trichloroethene	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Trichlorofluoromethane	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,2,3-Trichloropropane	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,2,4-Trimethylbenzene	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
1,3,5-Trimethylbenzene	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Vinyl chloride	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
o-Xylene	ND		95.0		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
m,p-Xylene	ND		190		ug/kg wet		11/23/10 09:00	11/23/10 09:54	100
Surrogate	Blank	Blank	% Recovery	Qualifier	Limits	D	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier							
Dibromofluoromethane	89.1		75 - 125				11/23/10 09:00	11/23/10 09:54	100
1,2-DCA-d4	89.9		75 - 125				11/23/10 09:00	11/23/10 09:54	100
Toluene-d8	89.4		75 - 125				11/23/10 09:00	11/23/10 09:54	100
4-BFB	108		75 - 125				11/23/10 09:00	11/23/10 09:54	100

Lab Sample ID: 10K0756-BS1

Matrix: Soil

Analysis Batch: 10K0756

Client Sample ID: 10K0756-BS1

Prep Type: total

Prep Batch: 10K0756_P

Analyte	Spike	LCS			D	% Rec	Limits		
	Added	Result	Qualifier	Unit					
Acetone	9320	8780		ug/kg wet		94.2	65 - 167		
Benzene	1860	1930		ug/kg wet		103	80 - 120		
Bromobenzene	1860	1990		ug/kg wet		107	80 - 120		
Bromochloromethane	1860	1990		ug/kg wet		107	80 - 120		
Bromodichloromethane	1860	2050		ug/kg wet		110	80 - 141		
Bromoform	1860	1700		ug/kg wet		90.9	75 - 151		
Bromomethane	1860	1890		ug/kg wet		101	65 - 130		
2-Butanone (MEK)	9320	8450		ug/kg wet		90.7	68 - 127		
n-Butylbenzene	1860	1860		ug/kg wet		100	90 - 146		
sec-Butylbenzene	1860	2090		ug/kg wet		112	80 - 133		
tert-Butylbenzene	1860	2020		ug/kg wet		108	80 - 130		
Carbon disulfide	3730	3640		ug/kg wet		97.8	67 - 140		
Carbon tetrachloride	1860	2050		ug/kg wet		110	71 - 128		
Chlorobenzene	1860	1950		ug/kg wet		104	80 - 127		
Chloroethane	1860	1980		ug/kg wet		106	75 - 125		
Chloroform	1860	2010		ug/kg wet		108	80 - 121		
Chloromethane	1860	2080		ug/kg wet		112	42 - 150		
2-Chlorotoluene	1860	2000		ug/kg wet		107	80 - 120		
4-Chlorotoluene	1860	1990		ug/kg wet		107	80 - 126		
1,2-Dibromo-3-chloropropane	1860	1360		ug/kg wet		72.9	61 - 128		
Dibromochloromethane	1860	1810		ug/kg wet		96.9	75 - 125		
1,2-Dibromoethane	1860	1870		ug/kg wet		101	80 - 124		
Dibromomethane	1860	2000		ug/kg wet		107	80 - 120		
1,2-Dichlorobenzene	1860	1860		ug/kg wet		99.7	80 - 120		
1,3-Dichlorobenzene	1860	2260		ug/kg wet		121	80 - 126		
1,4-Dichlorobenzene	1860	2300 L		ug/kg wet		123	77 - 121		
Dichlorodifluoromethane	1860	1970		ug/kg wet		106	75 - 120		

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0756-BS1

Matrix: Soil

Analysis Batch: 10K0756

Client Sample ID: 10K0756-BS1

Prep Type: total

Prep Batch: 10K0756_P

Analyte	Spike	LCS	LCS	Unit	D	% Rec	% Rec.	Limits
	Added	Result	Qualifier					
1,1-Dichloroethane	1860	2050		ug/kg wet		110	80 - 120	
1,2-Dichloroethane	1860	2100		ug/kg wet		113	80 - 120	
1,1-Dichloroethene	1860	1970		ug/kg wet		106	75 - 125	
cis-1,2-Dichloroethene	1860	2000		ug/kg wet		108	75 - 125	
trans-1,2-Dichloroethene	1860	1970		ug/kg wet		106	75 - 125	
1,2-Dichloropropane	1860	1990		ug/kg wet		107	82 - 125	
1,3-Dichloropropane	1860	1860		ug/kg wet		99.5	75 - 129	
2,2-Dichloropropane	1860	1990		ug/kg wet		107	72 - 132	
1,1-Dichloropropene	1860	2060		ug/kg wet		110	79 - 126	
cis-1,3-Dichloropropene	1860	1880		ug/kg wet		101	80 - 126	
trans-1,3-Dichloropropene	1860	1810		ug/kg wet		97.0	67 - 146	
Ethylbenzene	1860	1870		ug/kg wet		100	82 - 123	
Hexachlorobutadiene	1860	1700		ug/kg wet		90.9	80 - 152	
2-Hexanone	9320	8330		ug/kg wet		89.3	57 - 120	
Isopropylbenzene	1860	1990		ug/kg wet		107	82 - 128	
p-Isopropyltoluene	1860	2180		ug/kg wet		117	80 - 120	
4-Methyl-2-pentanone	9320	8890		ug/kg wet		95.4	52 - 120	
Methyl tert-butyl ether	1860	1930		ug/kg wet		103	75 - 125	
Methylene chloride	1860	2000		ug/kg wet		107	75 - 125	
Naphthalene	1860	1470	L2	ug/kg wet		79.0	80 - 130	
n-Propylbenzene	1860	2010		ug/kg wet		108	80 - 120	
Styrene	1860	1860		ug/kg wet		100	80 - 123	
1,1,1,2-Tetrachloroethane	1860	2160		ug/kg wet		116	83 - 128	
1,1,2,2-Tetrachloroethane	1860	2170		ug/kg wet		116	72 - 135	
Tetrachloroethene	1860	2070		ug/kg wet		111	80 - 124	
Toluene	1860	1960		ug/kg wet		105	80 - 120	
1,2,3-Trichlorobenzene	1860	1530		ug/kg wet		82.0	78 - 143	
1,2,4-Trichlorobenzene	1860	1600		ug/kg wet		85.9	83 - 149	
1,1,1-Trichloroethane	1860	2000		ug/kg wet		107	80 - 124	
1,1,2-Trichloroethane	1860	1890		ug/kg wet		101	80 - 125	
Trichloroethene	1860	2000		ug/kg wet		107	80 - 124	
Trichlorofluoromethane	1860	2010		ug/kg wet		108	56 - 147	
1,2,3-Trichloropropane	1860	1920		ug/kg wet		103	67 - 126	
1,2,4-Trimethylbenzene	1860	2130		ug/kg wet		114	81 - 134	
1,3,5-Trimethylbenzene	1860	2070		ug/kg wet		111	82 - 136	
Vinyl chloride	1860	500	L2	ug/kg wet		26.8	76 - 137	
o-Xylene	1860	1930		ug/kg wet		104	80 - 126	
m,p-Xylene		3730		ug/kg wet		103	80 - 120	

Surrogate	LCS	LCS	Limits
	% Recovery	Qualifier	
Dibromofluoromethane	93.2		75 - 125
1,2-DCA-d4	89.2		75 - 125
Toluene-d8	91.5		75 - 125
4-BFB	107		75 - 125

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0756-MS1

Matrix: Soil

Analysis Batch: 10K0756

Client Sample ID: PTK0801-01

Prep Type: total

Prep Batch: 10K0756_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	% Rec.			Limits
	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	
Acetone	ND		12900	13500		ug/kg dry	⊗	104	60 - 143
Benzene	ND		2580	2470		ug/kg dry	⊗	95.8	80 - 124
Bromobenzene	ND		2580	2490		ug/kg dry	⊗	96.5	70 - 130
Bromochloromethane	ND		2580	2520		ug/kg dry	⊗	97.6	80 - 129
Bromodichloromethane	ND		2580	2440		ug/kg dry	⊗	94.5	80 - 135
Bromoform	ND		2580	1820		ug/kg dry	⊗	70.8	70 - 130
Bromomethane	ND		2580	2400		ug/kg dry	⊗	93.3	70 - 130
2-Butanone (MEK)	ND		12900	13100		ug/kg dry	⊗	102	72 - 143
n-Butylbenzene	ND		2580	2310		ug/kg dry	⊗	89.7	71 - 140
sec-Butylbenzene	ND		2580	2530		ug/kg dry	⊗	98.0	70 - 134
tert-Butylbenzene	ND		2580	2510		ug/kg dry	⊗	97.3	80 - 133
Carbon disulfide	ND		5160	4440		ug/kg dry	⊗	86.1	70 - 130
Carbon tetrachloride	ND		2580	2300		ug/kg dry	⊗	89.3	72 - 126
Chlorobenzene	ND		2580	2570		ug/kg dry	⊗	99.6	70 - 130
Chloroethane	ND		2580	2530		ug/kg dry	⊗	98.0	70 - 130
Chloroform	ND		2580	2500		ug/kg dry	⊗	97.1	80 - 124
Chloromethane	ND		2580	2680		ug/kg dry	⊗	104	40 - 150
2-Chlorotoluene	ND		2580	2490		ug/kg dry	⊗	96.5	79 - 124
4-Chlorotoluene	ND		2580	2490		ug/kg dry	⊗	96.5	70 - 130
1,2-Dibromo-3-chloropropane	ND		2580	1540		ug/kg dry	⊗	59.8	59 - 143
Dibromochloromethane	ND		2580	2130		ug/kg dry	⊗	82.5	80 - 129
1,2-Dibromoethane	ND		2580	2570		ug/kg dry	⊗	99.7	80 - 128
Dibromomethane	ND		2580	2620		ug/kg dry	⊗	102	75 - 125
1,2-Dichlorobenzene	ND		2580	2360		ug/kg dry	⊗	91.5	80 - 120
1,3-Dichlorobenzene	ND		2580	2800		ug/kg dry	⊗	109	80 - 127
1,4-Dichlorobenzene	ND		2580	2870		ug/kg dry	⊗	111	80 - 120
Dichlorodifluoromethane	ND		2580	2170		ug/kg dry	⊗	84.3	63 - 134
1,1-Dichloroethane	ND		2580	2540		ug/kg dry	⊗	98.5	80 - 123
1,2-Dichloroethane	ND		2580	2750		ug/kg dry	⊗	107	75 - 120
1,1-Dichloroethene	ND		2580	2410		ug/kg dry	⊗	93.3	70 - 130
cis-1,2-Dichloroethene	ND		2580	2480		ug/kg dry	⊗	96.0	75 - 117
trans-1,2-Dichloroethene	ND		2580	2390		ug/kg dry	⊗	92.7	70 - 130
1,2-Dichloropropane	ND		2580	2630		ug/kg dry	⊗	102	80 - 128
1,3-Dichloropropane	ND		2580	2570		ug/kg dry	⊗	99.7	76 - 130
2,2-Dichloropropane	ND		2580	2360		ug/kg dry	⊗	91.5	70 - 130
1,1-Dichloropropene	ND		2580	2490		ug/kg dry	⊗	96.8	79 - 124
cis-1,3-Dichloropropene	ND		2580	2470		ug/kg dry	⊗	95.8	80 - 130
trans-1,3-Dichloropropene	ND		2580	2420		ug/kg dry	⊗	93.9	71 - 144
Ethylbenzene	ND		2580	2340		ug/kg dry	⊗	90.9	80 - 124
Hexachlorobutadiene	ND		2580	2020		ug/kg dry	⊗	78.4	46 - 157
2-Hexanone	ND		12900	13100		ug/kg dry	⊗	101	63 - 152
Isopropylbenzene	ND		2580	2430		ug/kg dry	⊗	94.4	80 - 129
p-Isopropyltoluene	ND		2580	2670		ug/kg dry	⊗	103	70 - 138
4-Methyl-2-pentanone	ND		12900	13400		ug/kg dry	⊗	104	59 - 151
Methyl tert-butyl ether	ND		2580	2430		ug/kg dry	⊗	94.2	70 - 130
Methylene chloride	ND		2580	2480		ug/kg dry	⊗	96.4	70 - 120
Naphthalene	ND		2580	1980		ug/kg dry	⊗	76.8	70 - 130
n-Propylbenzene	ND		2580	2470		ug/kg dry	⊗	95.9	70 - 130
Styrene	ND		2580	2410		ug/kg dry	⊗	93.3	86 - 122

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0756-MS1

Matrix: Soil

Analysis Batch: 10K0756

Client Sample ID: PTK0801-01

Prep Type: total

Prep Batch: 10K0756_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	% Rec.			Limits
	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	
1,1,1,2-Tetrachloroethane	ND		2580	2570		ug/kg dry	⊗	99.8	80 - 129
1,1,2,2-Tetrachloroethane	ND		2580	2710		ug/kg dry	⊗	105	70 - 130
Tetrachloroethene	ND		2580	2680		ug/kg dry	⊗	104	75 - 137
Toluene	ND		2580	2600		ug/kg dry	⊗	101	70 - 130
1,2,3-Trichlorobenzene	ND		2580	2000		ug/kg dry	⊗	77.8	70 - 130
1,2,4-Trichlorobenzene	ND		2580	2070		ug/kg dry	⊗	80.1	71 - 148
1,1,1-Trichloroethane	ND		2580	2370		ug/kg dry	⊗	92.1	80 - 127
1,1,2-Trichloroethane	ND		2580	2580		ug/kg dry	⊗	100	80 - 130
Trichloroethene	ND		2580	2550		ug/kg dry	⊗	98.8	82 - 123
Trichlorofluoromethane	ND		2580	2540		ug/kg dry	⊗	98.5	70 - 130
1,2,3-Trichloropropane	ND		2580	2510		ug/kg dry	⊗	97.4	70 - 130
1,2,4-Trimethylbenzene	ND		2580	2640		ug/kg dry	⊗	102	70 - 130
1,3,5-Trimethylbenzene	ND		2580	2530		ug/kg dry	⊗	98.1	73 - 141
Vinyl chloride	ND		2580	663	A-01	ug/kg dry	⊗	25.7	70 - 130
o-Xylene	ND		2580	2430		ug/kg dry	⊗	94.2	70 - 130
m,p-Xylene	ND		5160	4770		ug/kg dry	⊗	92.5	76 - 134
Surrogate		Matrix Spike	Matrix Spike						
		% Recovery	Qualifier						
Dibromofluoromethane		88.1		75 - 125					
1,2-DCA-d4		88.8		75 - 125					
Toluene-d8		92.0		75 - 125					
4-BFB		105		75 - 125					

Lab Sample ID: 10K0756-MSD1

Matrix: Soil

Analysis Batch: 10K0756

Client Sample ID: PTK0801-01

Prep Type: total

Prep Batch: 10K0756_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	% Rec.			RPD	Limit
	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	Limits	RPD
Acetone	ND		12800	14300		ug/kg dry	⊗	111	60 - 143	5.99
Benzene	ND		2570	2530		ug/kg dry	⊗	98.5	80 - 124	2.44
Bromobenzene	ND		2570	2650		ug/kg dry	⊗	103	70 - 130	6.37
Bromoform	ND		2570	2670		ug/kg dry	⊗	104	80 - 129	6.01
Bromochloromethane	ND		2570	2570		ug/kg dry	⊗	100	80 - 135	5.32
Bromodichloromethane	ND		2570	2090		ug/kg dry	⊗	81.5	70 - 130	13.8
Bromomethane	ND		2570	2640		ug/kg dry	⊗	103	70 - 130	9.16
2-Butanone (MEK)	ND		12800	13400		ug/kg dry	⊗	104	72 - 143	2.29
n-Butylbenzene	ND		2570	2450		ug/kg dry	⊗	95.5	71 - 140	5.88
sec-Butylbenzene	ND		2570	2700		ug/kg dry	⊗	105	70 - 134	6.74
tert-Butylbenzene	ND		2570	2680		ug/kg dry	⊗	104	80 - 133	6.46
Carbon disulfide	ND		5140	5040		ug/kg dry	⊗	98.2	70 - 130	12.7
Carbon tetrachloride	ND		2570	2520		ug/kg dry	⊗	98.0	72 - 126	9.01
Chlorobenzene	ND		2570	2640		ug/kg dry	⊗	103	70 - 130	2.87
Chloroethane	ND		2570	2730		ug/kg dry	⊗	106	70 - 130	7.59
Chloroform	ND		2570	2640		ug/kg dry	⊗	103	80 - 124	5.22
Chloromethane	ND		2570	2840		ug/kg dry	⊗	111	40 - 150	6.00
2-Chlorotoluene	ND		2570	2650		ug/kg dry	⊗	103	79 - 124	6.27
4-Chlorotoluene	ND		2570	2630		ug/kg dry	⊗	102	70 - 130	5.59
1,2-Dibromo-3-chloropropane	ND		2570	1800		ug/kg dry	⊗	69.9	59 - 143	15.3
Dibromochloromethane	ND		2570	2310		ug/kg dry	⊗	90.1	80 - 129	8.42

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0756-MSD1

Matrix: Soil

Analysis Batch: 10K0756

Client Sample ID: PTK0801-01

Prep Type: total

Prep Batch: 10K0756_P

Analyte	Sample	Sample	Spike	Matrix	Spike Dup	Matrix	Spike Dup	% Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	Limits		
1,2-Dibromoethane	ND		2570	2600		ug/kg dry	⊗	101	80 - 128	1.20	25
Dibromomethane	ND		2570	2680		ug/kg dry	⊗	104	75 - 125	2.28	25
1,2-Dichlorobenzene	ND		2570	2520		ug/kg dry	⊗	98.2	80 - 120	6.68	25
1,3-Dichlorobenzene	ND		2570	3030		ug/kg dry	⊗	118	80 - 127	7.91	25
1,4-Dichlorobenzene	ND		2570	3080		ug/kg dry	⊗	120	80 - 120	7.13	25
Dichlorodifluoromethane	ND		2570	2390		ug/kg dry	⊗	92.9	63 - 134	9.37	25
1,1-Dichloroethane	ND		2570	2660		ug/kg dry	⊗	104	80 - 123	4.66	25
1,2-Dichloroethane	ND		2570	2830		ug/kg dry	⊗	110	75 - 120	2.80	25
1,1-Dichloroethene	ND		2570	2540		ug/kg dry	⊗	99.0	70 - 130	5.59	25
cis-1,2-Dichloroethene	ND		2570	2610		ug/kg dry	⊗	102	75 - 117	5.37	25
trans-1,2-Dichloroethene	ND		2570	2500		ug/kg dry	⊗	97.5	70 - 130	4.71	25
1,2-Dichloropropane	ND		2570	2680		ug/kg dry	⊗	104	80 - 128	1.74	25
1,3-Dichloropropane	ND		2570	2630		ug/kg dry	⊗	102	76 - 130	2.43	25
2,2-Dichloropropane	ND		2570	2560		ug/kg dry	⊗	99.7	70 - 130	8.24	25
1,1-Dichloropropene	ND		2570	2580		ug/kg dry	⊗	101	79 - 124	3.51	25
cis-1,3-Dichloropropene	ND		2570	2500		ug/kg dry	⊗	97.5	80 - 130	1.37	25
trans-1,3-Dichloropropene	ND		2570	2420		ug/kg dry	⊗	94.4	71 - 144	0.08	25
Ethylbenzene	ND		2570	2430		ug/kg dry	⊗	94.7	80 - 124	3.76	25
Hexachlorobutadiene	ND		2570	2210		ug/kg dry	⊗	85.9	46 - 157	8.74	25
2-Hexanone	ND		12800	13100		ug/kg dry	⊗	102	63 - 152	0.55	25
Isopropylbenzene	ND		2570	2550		ug/kg dry	⊗	99.2	80 - 129	4.57	25
p-Isopropyltoluene	ND		2570	2860		ug/kg dry	⊗	111	70 - 138	6.79	25
4-Methyl-2-pentanone	ND		12800	13800		ug/kg dry	⊗	107	59 - 151	2.42	25
Methyl tert-butyl ether	ND		2570	2700		ug/kg dry	⊗	105	70 - 130	10.4	25
Methylene chloride	ND		2570	2630		ug/kg dry	⊗	103	70 - 120	5.84	25
Naphthalene	ND		2570	2130		ug/kg dry	⊗	83.0	70 - 130	7.31	25
n-Propylbenzene	ND		2570	2610		ug/kg dry	⊗	101	70 - 130	5.23	25
Styrene	ND		2570	2470		ug/kg dry	⊗	96.2	86 - 122	2.72	25
1,1,1,2-Tetrachloroethane	ND		2570	2850		ug/kg dry	⊗	111	80 - 129	10.2	25
1,1,2,2-Tetrachloroethane	ND		2570	2960		ug/kg dry	⊗	115	70 - 130	8.84	25
Tetrachloroethene	ND		2570	2740		ug/kg dry	⊗	106	75 - 137	2.03	25
Toluene	ND		2570	2620		ug/kg dry	⊗	102	70 - 130	0.94	25
1,2,3-Trichlorobenzene	ND		2570	2120		ug/kg dry	⊗	82.4	70 - 130	5.36	25
1,2,4-Trichlorobenzene	ND		2570	2210		ug/kg dry	⊗	86.1	71 - 148	6.89	25
1,1,1-Trichloroethane	ND		2570	2540		ug/kg dry	⊗	99.0	80 - 127	6.78	25
1,1,2-Trichloroethane	ND		2570	2620		ug/kg dry	⊗	102	80 - 130	1.74	25
Trichloroethene	ND		2570	2660		ug/kg dry	⊗	103	82 - 123	4.26	25
Trichlorofluoromethane	ND		2570	2760		ug/kg dry	⊗	108	70 - 130	8.44	25
1,2,3-Trichloropropane	ND		2570	2750		ug/kg dry	⊗	107	70 - 130	9.00	25
1,2,4-Trimethylbenzene	ND		2570	2820		ug/kg dry	⊗	110	70 - 130	6.73	25
1,3,5-Trimethylbenzene	ND		2570	2700		ug/kg dry	⊗	105	73 - 141	6.40	25
Vinyl chloride	ND		2570	619	A-01	ug/kg dry	⊗	24.1	70 - 130	6.82	25
o-Xylene	ND		2570	2530		ug/kg dry	⊗	98.4	70 - 130	3.92	25
m,p-Xylene	ND		5140	4920		ug/kg dry	⊗	95.7	76 - 134	3.01	25

Surrogate	Matrix Spike Dup	Matrix Spike Dup	Limits
	% Recovery	Qualifier	
Dibromofluoromethane	91.7		75 - 125
1,2-DCA-d4	91.5		75 - 125

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8260B - Volatile Organic Compounds per EPA Method 8260B (Continued)

Lab Sample ID: 10K0756-MSD1

Client Sample ID: PTK0801-01

Matrix: Soil

Prep Type: total

Analysis Batch: 10K0756

Prep Batch: 10K0756_P

Surrogate	Matrix Spike Dup	Matrix Spike Dup	Limits
	% Recovery	Qualifier	
Toluene-d8	92.2		75 - 125
4-BFB	109		75 - 125

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method

Lab Sample ID: 10K0649-BLK1

Client Sample ID: 10K0649-BLK1

Matrix: Water

Prep Type: total

Analysis Batch: 10K0649

Prep Batch: 10K0649_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Hydrocarbons	ND		80.0		ug/l		11/18/10 15:08	11/18/10 18:08	1
Surrogate	Blank	Blank							
4-BFB (FID)	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	51.4		50 - 150				11/18/10 15:08	11/18/10 18:08	1

Lab Sample ID: 10K0649-BS1

Client Sample ID: 10K0649-BS1

Matrix: Water

Prep Type: total

Analysis Batch: 10K0649

Prep Batch: 10K0649_P

Analyte	Spike	LCS	LCS	% Rec.	Unit	D	% Rec	Limits	RPD
	Added	Result	Qualifier						
Gasoline Range Hydrocarbons	500	601		ug/l			120	70 - 130	
Surrogate	Blank	Blank							
4-BFB (FID)	% Recovery	Qualifier	Limits						
	54.6		50 - 150						

Lab Sample ID: 10K0649-BSD1

Client Sample ID: 10K0649-BSD1

Matrix: Water

Prep Type: total

Analysis Batch: 10K0649

Prep Batch: 10K0649_P

Analyte	Spike	LCS Dup	LCS Dup	% Rec.	Unit	D	% Rec	Limits	RPD
	Added	Result	Qualifier						
Gasoline Range Hydrocarbons	500	612		ug/l			122	70 - 130	1.91
Surrogate	Blank	Blank							
4-BFB (FID)	% Recovery	Qualifier	Limits						
	54.0		50 - 150						

Lab Sample ID: 10K0649-DUP1

Client Sample ID: Rinsate

Matrix: Water

Prep Type: total

Analysis Batch: 10K0649

Prep Batch: 10K0649_P

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD	Limit
	Result	Qualifier						
Gasoline Range Hydrocarbons	ND		ND		ug/l			35
Surrogate	Blank	Blank						
4-BFB (FID)	% Recovery	Qualifier	Limits					
	103		50 - 150					

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NW TPH-Gx - Gasoline Hydrocarbons per NW TPH-Gx Method (Continued)

Lab Sample ID: 10K0663-BLK1

Matrix: Soil

Analysis Batch: 10K0663

Client Sample ID: 10K0663-BLK1

Prep Type: total

Prep Batch: 10K0663_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Hydrocarbons	ND		3.98		mg/kg wet		11/19/10 08:10	11/22/10 11:29	50
Surrogate	Blank	Blank	Limits				Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier							
a,a,a-TFT (FID)	100		50 - 150				11/19/10 08:10	11/22/10 11:29	50

Lab Sample ID: 10K0663-BS1

Matrix: Soil

Analysis Batch: 10K0663

Client Sample ID: 10K0663-BS1

Prep Type: total

Prep Batch: 10K0663_P

Analyte	Blank	Blank	Spike	LCS	LCS	Unit	D	% Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Gasoline Range Hydrocarbons			24.9	31.3		mg/kg wet		126	70 - 130
Surrogate	Blank	Blank	Limits						
	% Recovery	Qualifier							
a,a,a-TFT (FID)	109		50 - 150						

Lab Sample ID: 10K0663-MS1

Matrix: Soil

Analysis Batch: 10K0663

Client Sample ID: BA-1-8

Prep Type: total

Prep Batch: 10K0663_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Gasoline Range Hydrocarbons	1.96	A-01a	67.5	91.4	M7	mg/kg dry	⊗	133	65 - 130
Surrogate	Matrix Spike	Matrix Spike	Limits						
	% Recovery	Qualifier							
a,a,a-TFT (FID)	128		50 - 150						

Lab Sample ID: 10K0663-DUP1

Matrix: Soil

Analysis Batch: 10K0663

Client Sample ID: BA-1-11.5

Prep Type: total

Prep Batch: 10K0663_P

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Gasoline Range Hydrocarbons	1.53	A-01a		ND	A-01a R4	mg/kg dry	⊗	
Surrogate	Duplicate	Duplicate	Limits					
	% Recovery	Qualifier						
a,a,a-TFT (FID)	117	A-01a	50 - 150					

Lab Sample ID: 10K0663-DUP2

Matrix: Soil

Analysis Batch: 10K0663

Client Sample ID: BA-2-4.5

Prep Type: total

Prep Batch: 10K0663_P

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Gasoline Range Hydrocarbons	45.8	Q8		50.8	Q8	mg/kg dry	⊗	
Surrogate	Duplicate	Duplicate	Limits					
	% Recovery	Qualifier						
a,a,a-TFT (FID)	125		50 - 150					

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM

Lab Sample ID: 10K0527-BS1

Matrix: Soil

Analysis Batch: 10K0527

Client Sample ID: 10K0527-BS1

Prep Type: total

Prep Batch: 10K0527_P

Analyte		Spike	LCS	LCS	Unit	D	% Rec	Limits
		Added	Result	Qualifier				
Acenaphthene		164	149		ug/kg wet		91.0	33 - 139
Benzo (a) pyrene		164	143		ug/kg wet		87.3	45 - 149
Pyrene		164	153		ug/kg wet		93.0	39 - 138

Surrogate		LCS	LCS	Limits
		% Recovery	Qualifier	
Fluorene-d10		107		24 - 125
Pyrene-d10		112		41 - 141
Benzo (a) pyrene-d12		103		38 - 143

Lab Sample ID: 10K0527-MS1

Matrix: Soil

Analysis Batch: 10K0527

Client Sample ID: BA-1-8

Prep Type: total

Prep Batch: 10K0527_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acenaphthene	59.6		210	232		ug/kg dry	⊗	81.8	33 - 139
Benzo (a) pyrene	89.7		210	232		ug/kg dry	⊗	67.8	45 - 149
Pyrene	125		210	278		ug/kg dry	⊗	72.7	39 - 138

Surrogate	Matrix Spike	Matrix Spike	Limits
	% Recovery	Qualifier	
Fluorene-d10	108		24 - 125
Pyrene-d10	126		41 - 141
Benzo (a) pyrene-d12	116		38 - 143

Lab Sample ID: 10K0527-MSD1

Matrix: Soil

Analysis Batch: 10K0527

Client Sample ID: BA-1-8

Prep Type: total

Prep Batch: 10K0527_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	% Rec	Limits	RPD
	Result	Qualifier	Added	Result	Qualifier					
Acenaphthene	59.6		211	234		ug/kg dry	⊗	82.7	33 - 139	1.13
Benzo (a) pyrene	89.7		211	224		ug/kg dry	⊗	63.5	45 - 149	3.66
Pyrene	125		211	274		ug/kg dry	⊗	70.8	39 - 138	1.21

Surrogate	Matrix Spike Dup	Matrix Spike Dup	Limits
	% Recovery	Qualifier	
Fluorene-d10	102		24 - 125
Pyrene-d10	118		41 - 141
Benzo (a) pyrene-d12	104		38 - 143

Lab Sample ID: 10K0544-BLK1

Matrix: Water

Analysis Batch: 10K0544

Client Sample ID: 10K0544-BLK1

Prep Type: total

Prep Batch: 10K0544_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylnaphthalene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1
Acenaphthene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1
Acenaphthylene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1
Anthracene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1
Benzo (a) anthracene	ND		0.00500		ug/l		11/16/10 17:50	11/22/10 08:48	1
Benzo (a) pyrene	ND		0.00500		ug/l		11/16/10 17:50	11/22/10 08:48	1
Benzo (b) fluoranthene	ND		0.00500		ug/l		11/16/10 17:50	11/22/10 08:48	1

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM (Continued)

Lab Sample ID: 10K0544-BLK1

Matrix: Water

Analysis Batch: 10K0544

Client Sample ID: 10K0544-BLK1

Prep Type: total

Prep Batch: 10K0544_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo (ghi) perylene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1
Benzo (k) fluoranthene	ND		0.00500		ug/l		11/16/10 17:50	11/22/10 08:48	1
Chrysene	ND		0.00500		ug/l		11/16/10 17:50	11/22/10 08:48	1
Dibenzo (a,h) anthracene	ND		0.00500		ug/l		11/16/10 17:50	11/22/10 08:48	1
Fluoranthene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1
Fluorene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1
Indeno (1,2,3-cd) pyrene	ND		0.00500		ug/l		11/16/10 17:50	11/22/10 08:48	1
Naphthalene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1
Phenanthrene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1
Pyrene	ND		0.100		ug/l		11/16/10 17:50	11/22/10 08:48	1

Surrogate	Blank	Blank	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Fluorene-d10		73.9			25 - 125		11/16/10 17:50	11/22/10 08:48	1
Pyrene-d10		86.9			23 - 150		11/16/10 17:50	11/22/10 08:48	1
Benzo (a) pyrene-d12		85.0			10 - 125		11/16/10 17:50	11/22/10 08:48	1

Lab Sample ID: 10K0544-BS1

Matrix: Water

Analysis Batch: 10K0544

Client Sample ID: 10K0544-BS1

Prep Type: total

Prep Batch: 10K0544_P

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec.	Limits
		Result	Qualifier				
Acenaphthene	1.25	1.02		ug/l		81.8	26 - 135
Benzo (a) pyrene	1.25	1.09		ug/l		86.9	38 - 137
Pyrene	1.25	1.09		ug/l		87.2	30 - 147

Surrogate	LCS	LCS	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluorene-d10	73.6		25 - 125					
Pyrene-d10	87.7		23 - 150					
Benzo (a) pyrene-d12	88.9		10 - 125					

Lab Sample ID: 10K0544-BSD1

Matrix: Water

Analysis Batch: 10K0544

Client Sample ID: 10K0544-BSD1

Prep Type: total

Prep Batch: 10K0544_P

Analyte	Spike	LCS Dup	LCS Dup	Unit	D	% Rec.	Limits	RPD	Limit
	Added	Result	Qualifier						
Acenaphthene	1.25	1.07		ug/l		85.5	26 - 135	4.44	50
Benzo (a) pyrene	1.25	1.19		ug/l		95.5	38 - 137	9.50	50
Pyrene	1.25	1.18		ug/l		94.8	30 - 147	8.37	50

Surrogate	LCS Dup	LCS Dup	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Fluorene-d10	64.1		25 - 125					
Pyrene-d10	96.1		23 - 150					
Benzo (a) pyrene-d12	93.7		10 - 125					

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM (Continued)

Lab Sample ID: 10K0620-BLK1

Matrix: Soil

Analysis Batch: 10K0620

Client Sample ID: 10K0620-BLK1

Prep Type: total

Prep Batch: 10K0620_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylnaphthalene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Acenaphthene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Acenaphthylene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Anthracene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Benzo (a) anthracene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Benzo (a) pyrene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Benzo (b) fluoranthene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Benzo (ghi) perylene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Benzo (k) fluoranthene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Chrysene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Dibenzo (a,h) anthracene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Fluoranthene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Fluorene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Indeno (1,2,3-cd) pyrene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Naphthalene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Phenanthrene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1
Pyrene	ND		13.4		ug/kg wet		11/18/10 10:15	11/18/10 16:07	1

Surrogate	Blank	Blank	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier						
Fluorene-d10	95.4		24 - 125			11/18/10 10:15	11/18/10 16:07	1
Pyrene-d10	101		41 - 141			11/18/10 10:15	11/18/10 16:07	1
Benzo (a) pyrene-d12	83.7		38 - 143			11/18/10 10:15	11/18/10 16:07	1

Lab Sample ID: 10K0620-BS1

Matrix: Soil

Analysis Batch: 10K0620

Client Sample ID: 10K0620-BS1

Prep Type: total

Prep Batch: 10K0620_P

Analyte	Spike	LCS		Result	Qualifier	Unit	D	% Rec.	Limits
		Added	Result						
Acenaphthene		164	141			ug/kg wet		85.8	33 - 139
Benzo (a) pyrene		164	132			ug/kg wet		80.6	45 - 149
Pyrene		164	180			ug/kg wet		110	39 - 138

Surrogate	LCS		% Recovery	Qualifier	Limits
	% Recovery	Qualifier			
Fluorene-d10	101		24 - 125		
Pyrene-d10	128		41 - 141		
Benzo (a) pyrene-d12	92.3		38 - 143		

Lab Sample ID: 10K0620-MS1

Matrix: Soil

Analysis Batch: 10K0620

Client Sample ID: BA-1-9.5

Prep Type: total

Prep Batch: 10K0620_P

Analyte	Sample	Sample	Spike	Matrix Spike		Result	Qualifier	Unit	D	% Rec.	Limits
			Result	Qualifier	Added						
Acenaphthene		2950			213	1980	MHA	ug/kg dry	⊗	-456	33 - 139
Benzo (a) pyrene		650			213	1340	MHA	ug/kg dry	⊗	324	45 - 149
Pyrene		8080			213	5630	MHA	ug/kg dry	⊗	-1150	39 - 138

Surrogate	Matrix Spike		% Recovery	Qualifier	Limits
	Result	Qualifier			
Fluorene-d10	95.2		24 - 125		

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 8270m - Polynuclear Aromatic Compounds per EPA 8270M-SIM (Continued)

Lab Sample ID: 10K0620-MS1

Matrix: Soil

Analysis Batch: 10K0620

Client Sample ID: BA-1-9.5

Prep Type: total

Prep Batch: 10K0620_P

Surrogate	Matrix Spike	Matrix Spike	Limits
	% Recovery	Qualifier	
Pyrene-d10	105		41 - 141
Benzo (a) pyrene-d12	94.8		38 - 143

Lab Sample ID: 10K0620-MSD1

Matrix: Soil

Analysis Batch: 10K0620

Client Sample ID: BA-1-9.5

Prep Type: total

Prep Batch: 10K0620_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	% Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Acenaphthene	2950		214	1440	MHA	ug/kg dry	⊗	-706	33 - 139	31.7	60
Benzo (a) pyrene	650		214	703	MHA, R2	ug/kg dry	⊗	24.4	45 - 149	62.4	60
Pyrene	8080		214	3560	MHA	ug/kg dry	⊗	-2110	39 - 138	45.0	60

Surrogate	Matrix Spike Dup	Matrix Spike Dup	Limits
	% Recovery	Qualifier	
Fluorene-d10	98.1		24 - 125
Pyrene-d10	98.7		41 - 141
Benzo (a) pyrene-d12	101		38 - 143

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods

Lab Sample ID: 10K0622-BLK1

Matrix: Soil

Analysis Batch: 10K0622

Client Sample ID: 10K0622-BLK1

Prep Type: total

Prep Batch: 10K0622_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.485		mg/kg wet		11/18/10 09:08	11/20/10 00:29	10
Barium	ND		0.485		mg/kg wet		11/18/10 09:08	11/20/10 00:29	10
Cadmium	ND		0.485		mg/kg wet		11/18/10 09:08	11/20/10 00:29	10
Chromium	ND		0.971		mg/kg wet		11/18/10 09:08	11/20/10 00:29	10
Copper	ND		0.971		mg/kg wet		11/18/10 09:08	11/20/10 00:29	10
Lead	ND		0.485		mg/kg wet		11/18/10 09:08	11/20/10 00:29	10
Selenium	ND		0.485		mg/kg wet		11/18/10 09:08	11/20/10 00:29	10
Zinc	ND		4.85		mg/kg wet		11/18/10 09:08	11/20/10 00:29	10

Lab Sample ID: 10K0622-BS1

Matrix: Soil

Analysis Batch: 10K0622

Client Sample ID: 10K0622-BS1

Prep Type: total

Prep Batch: 10K0622_P

Analyte	Spike	LCS	LCS	Unit	D	% Rec	Limits
	Added	Result	Qualifier				
Arsenic	48.5	53.6		mg/kg wet		110	80 - 120
Barium	48.5	54.7		mg/kg wet		113	80 - 120
Cadmium	48.5	52.5		mg/kg wet		108	80 - 120
Chromium	48.5	55.2		mg/kg wet		114	80 - 120
Copper	48.5	54.8		mg/kg wet		113	80 - 120
Lead	48.5	56.5		mg/kg wet		116	80 - 120
Selenium	48.5	52.7		mg/kg wet		108	80 - 120
Zinc	48.5	51.2		mg/kg wet		106	80 - 120

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods (Continued)

Lab Sample ID: 10K0622-MS1

Matrix: Soil

Analysis Batch: 10K0622

Client Sample ID: PTK0622-03

Prep Type: total

Prep Batch: 10K0622_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	% Rec.			
	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	Limits
Arsenic	6.69		55.3	60.9		mg/kg dry	⊗	98.0	75 - 125
Barium	87.3		55.3	144		mg/kg dry	⊗	102	75 - 125
Cadmium	ND		55.3	50.8		mg/kg dry	⊗	91.9	75 - 125
Chromium	13.8		55.3	62.8		mg/kg dry	⊗	88.6	75 - 125
Copper	7.63		55.3	59.6		mg/kg dry	⊗	94.1	75 - 125
Lead	5.75		55.3	58.4		mg/kg dry	⊗	95.3	75 - 125
Selenium	ND		55.3	49.5		mg/kg dry	⊗	89.6	75 - 125
Zinc	37.9		55.3	95.3		mg/kg dry	⊗	104	75 - 125

Lab Sample ID: 10K0622-MSD1

Matrix: Soil

Analysis Batch: 10K0622

Client Sample ID: PTK0622-03

Prep Type: total

Prep Batch: 10K0622_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	% Rec.			RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	RPD Limit
Arsenic	6.69		53.7	60.9		mg/kg dry	⊗	101	75 - 125 0.02
Barium	87.3		53.7	135		mg/kg dry	⊗	89.4	75 - 125 6.17
Cadmium	ND		53.7	49.9		mg/kg dry	⊗	92.9	75 - 125 1.84
Chromium	13.8		53.7	62.9		mg/kg dry	⊗	91.4	75 - 125 0.10
Copper	7.63		53.7	59.7		mg/kg dry	⊗	97.0	75 - 125 0.08
Lead	5.75		53.7	56.3		mg/kg dry	⊗	94.1	75 - 125 0.55
Selenium	ND		53.7	52.1		mg/kg dry	⊗	97.0	75 - 125 3.78
Zinc	37.9		53.7	93.5		mg/kg dry	⊗	104	75 - 125 5.01

Lab Sample ID: 10K0641-BLK1

Matrix: Water

Analysis Batch: 10K0641

Client Sample ID: 10K0641-BLK1

Prep Type: total

Prep Batch: 10K0641_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.00100		mg/l		11/18/10 13:18	11/18/10 23:26	1
Barium	ND		0.00100		mg/l		11/18/10 13:18	11/18/10 23:26	1
Cadmium	ND		0.00100		mg/l		11/18/10 13:18	11/18/10 23:26	1
Chromium	ND		0.00200		mg/l		11/18/10 13:18	11/18/10 23:26	1
Copper	ND		0.00200		mg/l		11/18/10 13:18	11/18/10 23:26	1
Lead	ND		0.00100		mg/l		11/18/10 13:18	11/18/10 23:26	1
Selenium	ND		0.00100		mg/l		11/18/10 13:18	11/18/10 23:26	1
Zinc	ND		0.0100		mg/l		11/18/10 13:18	11/18/10 23:26	1

Lab Sample ID: 10K0641-BS1

Matrix: Water

Analysis Batch: 10K0641

Client Sample ID: 10K0641-BS1

Prep Type: total

Prep Batch: 10K0641_P

Analyte	Spike	LCS	LCS	% Rec.			
	Added	Result	Qualifier	Unit	D	% Rec	Limits
Arsenic	0.100	0.0956		mg/l		95.6	80 - 120
Barium	0.100	0.102		mg/l		102	80 - 120
Cadmium	0.100	0.0948		mg/l		94.8	80 - 120
Chromium	0.100	0.0981		mg/l		98.1	80 - 120
Copper	0.100	0.0978		mg/l		97.8	80 - 120
Lead	0.100	0.102		mg/l		102	80 - 120
Selenium	0.100	0.0961		mg/l		96.1	80 - 120

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 6020 - Total Metals per EPA 6000/7000 Series Methods (Continued)

Lab Sample ID: 10K0641-BS1

Matrix: Water

Analysis Batch: 10K0641

Client Sample ID: 10K0641-BS1

Prep Type: total

Prep Batch: 10K0641_P

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec.	% Rec. Limits
			mg/l	mg/l	mg/l	91.2	80 - 120	
Zinc		0.100	0.0912		mg/l			

Lab Sample ID: 10K0641-MS1

Matrix: Water

Analysis Batch: 10K0641

Client Sample ID: PTK0461-02

Prep Type: total

Prep Batch: 10K0641_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec.	% Rec. Limits
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	136	75 - 125	
Arsenic	0.00205		0.100	0.138	M7	mg/l			
Barium	0.0474		0.100	0.198	M7	mg/l	151	75 - 125	
Cadmium	ND		0.100	0.135	M7	mg/l	135	75 - 125	
Chromium	0.00775		0.100	0.145	M7	mg/l	138	75 - 125	
Copper	0.0945		0.100	0.247	M7	mg/l	153	75 - 125	
Lead	0.0136		0.100	0.147	M7	mg/l	133	75 - 125	
Selenium	ND		0.100	0.130	M7	mg/l	130	75 - 125	
Zinc	0.260		0.100	0.455	M7	mg/l	195	75 - 125	

Lab Sample ID: 10K0641-MS2

Matrix: Water

Analysis Batch: 10K0641

Client Sample ID: Rinsate

Prep Type: total

Prep Batch: 10K0641_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec.	% Rec. Limits
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	99.2	75 - 125	
Arsenic	ND		0.100	0.0992		mg/l			
Barium	0.00148		0.100	0.102		mg/l	100	75 - 125	
Cadmium	ND		0.100	0.0976		mg/l	97.6	75 - 125	
Chromium	ND		0.100	0.0948		mg/l	94.8	75 - 125	
Copper	0.0673		0.100	0.163		mg/l	95.8	75 - 125	
Lead	0.00338		0.100	0.103		mg/l	99.2	75 - 125	
Selenium	ND		0.100	0.103		mg/l	103	75 - 125	
Zinc	ND		0.100	0.0956		mg/l	95.6	75 - 125	

Lab Sample ID: 10K0641-DUP1

Matrix: Water

Analysis Batch: 10K0641

Client Sample ID: PTK0460-02

Prep Type: total

Prep Batch: 10K0641_P

Analyte	Sample Result	Sample Qualifier		Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
	mg/l	mg/l		mg/l	mg/l	mg/l	mg/l		
Arsenic	0.00127			0.00129		mg/l		1.56	20
Barium	0.00159			0.00161		mg/l		1.25	20
Cadmium	ND			ND		mg/l			20
Chromium	0.000950			ND		mg/l		3.11	20
Copper	0.00387			0.00408		mg/l		5.28	20
Lead	ND			ND		mg/l			20
Selenium	ND			ND		mg/l			20
Zinc	0.00590			ND		mg/l		0.51	20

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: EPA 7471A - Total Mercury per EPA Method 7471A

Lab Sample ID: 10K0632-BLK1

Matrix: Soil

Analysis Batch: T003759

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.0988		mg/kg wet		11/18/10 11:26	11/19/10 10:25	1

Client Sample ID: 10K0632-BLK1

Prep Type: total

Prep Batch: 10K0632_P

Lab Sample ID: 10K0632-BS1

Matrix: Soil

Analysis Batch: T003759

Analyte	Spike	LCS	LCS	Unit	D	% Rec.	Limits	RPD
	Added	Result	Qualifier					
Mercury	0.623	0.632		mg/kg wet		101	80 - 120	

Client Sample ID: 10K0632-BS1

Prep Type: total

Prep Batch: 10K0632_P

Lab Sample ID: 10K0632-BSD1

Matrix: Soil

Analysis Batch: T003759

Analyte	Spike	LCS Dup	LCS Dup	Unit	D	% Rec.	Limits	RPD
	Added	Result	Qualifier					
Mercury	0.620	0.614		mg/kg wet		99.0	80 - 120	2.85

Client Sample ID: 10K0632-BSD1

Prep Type: total

Prep Batch: 10K0632_P

Lab Sample ID: 10K0632-MS1

Matrix: Soil

Analysis Batch: T003759

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec.
	Result	Qualifier	Added	Result	Qualifier			
Mercury	0.0383		0.745	0.794		mg/kg dry	⊗	102

Client Sample ID: BA-1-8

Prep Type: total

Prep Batch: 10K0632_P

Lab Sample ID: 10K0632-MSD1

Matrix: Soil

Analysis Batch: T003759

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	% Rec.
	Result	Qualifier	Added	Result	Qualifier			
Mercury	0.0383		0.759	0.845		mg/kg dry	⊗	106

Client Sample ID: BA-1-8

Prep Type: total

Prep Batch: 10K0632_P

Lab Sample ID: 10K0632-DUP1

Matrix: Soil

Analysis Batch: T003759

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD
	Result	Qualifier	Result	Qualifier			
Mercury	0.0383		ND		mg/kg dry	⊗	33.5

Client Sample ID: BA-1-8

Prep Type: total

Prep Batch: 10K0632_P

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup

Lab Sample ID: 10K0579-BLK1

Matrix: Soil

Analysis Batch: 10K0579

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics	ND		12.4		mg/kg wet		11/17/10 12:15	11/17/10 23:56	1
Residual Range/Heavy Oil Organics	ND		24.9		mg/kg wet		11/17/10 12:15	11/17/10 23:56	1

Client Sample ID: 10K0579-BLK1

Prep Type: total

Prep Batch: 10K0579_P

Surrogate	Blank	Blank	% Recovery	Qualifier	Limits	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Chlorooctadecane	101				50 - 150		11/17/10 12:15	11/17/10 23:56	1

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup (Continued)

Lab Sample ID: 10K0579-BS1

Matrix: Soil

Analysis Batch: 10K0579

Client Sample ID: 10K0579-BS1

Prep Type: total

Prep Batch: 10K0579_P

% Rec.

Limits

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec.	Limits
Diesel Range Organics	125	136		mg/kg wet		109	50 - 150
Residual Range/Heavy Oil Organics	74.9	70.5		mg/kg wet		94.2	50 - 150
Surrogate							
1-Chlorooctadecane							
	LCS	LCS					
	% Recovery	Qualifier					
	108		60 - 120				

Lab Sample ID: 10K0579-DUP1

Matrix: Soil

Analysis Batch: 10K0579

Client Sample ID: PTK0499-01

Prep Type: total

Prep Batch: 10K0579_P

RPD

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Diesel Range Organics	1500		2040		mg/kg dry	⊗	30.7	40
Residual Range/Heavy Oil Organics	103		140		mg/kg dry	⊗	30.0	40
Surrogate								
1-Chlorooctadecane								
	Duplicate	Duplicate						
	% Recovery	Qualifier						
	132		50 - 150					

Lab Sample ID: 10K0579-DUP2

Matrix: Soil

Analysis Batch: 10K0579

Client Sample ID: PTK0499-02

Prep Type: total

Prep Batch: 10K0579_P

RPD

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Diesel Range Organics	42.0		51.2		mg/kg dry	⊗	19.8	40
Residual Range/Heavy Oil Organics	190		215		mg/kg dry	⊗	12.5	40
Surrogate								
1-Chlorooctadecane								
	Duplicate	Duplicate						
	% Recovery	Qualifier						
	95.2		50 - 150					

Lab Sample ID: 10K0580-BLK1

Matrix: Soil

Analysis Batch: 10K0580

Client Sample ID: 10K0580-BLK1

Prep Type: total

Prep Batch: 10K0580_P

RPD

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics	ND		12.5		mg/kg wet		11/17/10 12:15	11/18/10 01:57	1
Residual Range/Heavy Oil Organics	ND		24.9		mg/kg wet		11/17/10 12:15	11/18/10 01:57	1
Surrogate									
1-Chlorooctadecane									
	Blank	Blank							
	% Recovery	Qualifier							
	98.3		50 - 150						
	Prepared	Analyzed							
	11/17/10 12:15	11/18/10 01:57							

Lab Sample ID: 10K0580-BS1

Matrix: Soil

Analysis Batch: 10K0580

Client Sample ID: 10K0580-BS1

Prep Type: total

Prep Batch: 10K0580_P

% Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec.	Limits
Diesel Range Organics	124	135		mg/kg wet		109	50 - 150

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup (Continued)

Lab Sample ID: 10K0580-BS1

Matrix: Soil

Analysis Batch: 10K0580

Client Sample ID: 10K0580-BS1

Prep Type: total

Prep Batch: 10K0580_P

Analyte		Spike	LCS	LCS	Unit	D	% Rec	% Rec.
		Added	Result	Qualifier				
Residual Range/Heavy Oil Organics		74.6	68.5		mg/kg wet	91.9	50 - 150	
Surrogate								
1-Chlorooctadecane		105		60 - 120				

Lab Sample ID: 10K0580-DUP1

Matrix: Soil

Analysis Batch: 10K0580

Client Sample ID: BA-5c-3.5

Prep Type: total

Prep Batch: 10K0580_P

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Diesel Range Organics	24100		31800		mg/kg dry	⊗	27.6	40
Residual Range/Heavy Oil Organics	22900		32400		mg/kg dry	⊗	34.6	40
Surrogate								
1-Chlorooctadecane		Z3		50 - 150				

Lab Sample ID: 10K0580-DUP2

Matrix: Soil

Analysis Batch: 10K0580

Client Sample ID: PTK0659-06

Prep Type: total

Prep Batch: 10K0580_P

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Diesel Range Organics	1.77		ND		mg/kg dry	⊗	7.61	40
Residual Range/Heavy Oil Organics	ND		ND		mg/kg dry	⊗		40
Surrogate								
1-Chlorooctadecane		68.2		50 - 150				

Lab Sample ID: 10K0580-DUP3

Matrix: Soil

Analysis Batch: 10K0580

Client Sample ID: PTK0659-09

Prep Type: total

Prep Batch: 10K0580_P

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Diesel Range Organics	65.1		60.2	Q11	mg/kg dry	⊗	7.94	40
Residual Range/Heavy Oil Organics	53.4		41.4		mg/kg dry	⊗	25.4	40
Surrogate								
1-Chlorooctadecane		79.7		50 - 150				

Lab Sample ID: 10K0617-BLK1

Matrix: Water

Analysis Batch: 10K0617

Client Sample ID: 10K0617-BLK1

Prep Type: total

Prep Batch: 10K0617_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics	ND		0.100		mg/l		11/18/10 11:15	11/19/10 02:27	1
Residual Range/Heavy Oil Organics	ND		0.500		mg/l		11/18/10 11:15	11/19/10 02:27	1

TestAmerica Portland

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: NWTPH-Dx - Diesel and Heavy Range Hydrocarbons per NWTPH-Dx Method with Acid/Silica Gel Cleanup (Continued)

Lab Sample ID: 10K0617-BLK1

Matrix: Water

Analysis Batch: 10K0617

Client Sample ID: 10K0617-BLK1

Prep Type: total

Prep Batch: 10K0617_P

Surrogate	Blank	Blank	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane			93.9		50 - 150	11/18/10 11:15	11/19/10 02:27	1

Lab Sample ID: 10K0617-BS1

Matrix: Water

Analysis Batch: 10K0617

Client Sample ID: 10K0617-BS1

Prep Type: total

Prep Batch: 10K0617_P

Analyte	Spike	LCS	LCS	Unit	D	% Rec	Limits	% Rec.
	Added	Result	Qualifier					
Diesel Range Organics	2.50	1.98		mg/l	79.2	50 - 150		
Residual Range/Heavy Oil Organics	1.50	1.38		mg/l	92.1	50 - 150		
Surrogate	LCS	LCS						
1-Chlorooctadecane	% Recovery	Qualifier	Limits					
	98.5		60 - 120					

Lab Sample ID: 10K0617-BSD1

Matrix: Water

Analysis Batch: 10K0617

Client Sample ID: 10K0617-BSD1

Prep Type: total

Prep Batch: 10K0617_P

Analyte	Spike	LCS Dup	LCS Dup	Unit	D	% Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
Diesel Range Organics	2.50	2.05		mg/l	82.1	50 - 150		3.58	20
Residual Range/Heavy Oil Organics	1.50	1.33		mg/l	88.9	50 - 150		3.57	20
Surrogate	LCS Dup	LCS Dup							
1-Chlorooctadecane	% Recovery	Qualifier	Limits						
	98.1		60 - 120						

Method: ASTM D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

Lab Sample ID: 10K0551-DUP1

Matrix: Soil

Analysis Batch: 10K0551

Client Sample ID: BA-1-9.5

Prep Type: total

Prep Batch: 10K0551_P

Analyte	Sample	Sample	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
	Result	Qualifier						
% Solids	77.8		77.5		% by Weight		0.46	20

Lab Sample ID: 10K0551-DUP2

Matrix: Soil

Analysis Batch: 10K0551

Client Sample ID: PTK0577-01

Prep Type: total

Prep Batch: 10K0551_P

Analyte	Sample	Sample	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
	Result	Qualifier						
% Solids	85.9		85.8		% by Weight		0.06	20

Quality Control Data

Client: Delta Consultants - Portland
Project/Site: PTKM

TestAmerica Job ID: PTK0558
SDG: PTK0558

Method: ASTM D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80 (Continued)

Lab Sample ID: 10K0616-DUP1

Matrix: Soil

Analysis Batch: 10K0616

Client Sample ID: BA-1-8

Prep Type: total

Prep Batch: 10K0616_P

RPD

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
% Solids	78.6		79.9		% by Weight		1.62	20

Lab Sample ID: 10K0616-DUP2

Matrix: Soil

Analysis Batch: 10K0616

Client Sample ID: BA-1-11.5

Prep Type: total

Prep Batch: 10K0616_P

RPD

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
% Solids	73.0		74.9		% by Weight		2.61	20

Certification Summary

Client: Delta Consultants - Portland

Project/Site: PTKM

TestAmerica Job ID: PTK0558

SDG: PTK0558

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Portland	Alaska	Alaska UST	10	UST-012	12/26/10
TestAmerica Portland	Alaska	State Program	10	OR00040	04/21/11
TestAmerica Portland	California	State Program	9	2597	09/30/11
TestAmerica Portland	Oregon	NELAC Primary AB	10	OR100021	01/09/11
TestAmerica Portland	Washington	State Program	10	C586	06/23/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
11922 E. First Ave, Spokane, WA 99206-5302
9405 SW Nimbus Ave, Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: WTK0558

CLIENT: Delta for Kinder Morgan		INVOICE TO: Rob Twedinger Kinder Morgan		TURNAROUND REQUEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
REPORT TO: Tim Browning /Delta Consultants				in Business Days *																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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CLIENT SAMPLE IDENTIFICATION	SAMPLING 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OPTIONAL REMARKS:
Metals As, Ba, Cd, Cr, Co, Pb, Se, Zn

CC Results to Eric_Arsonson@
CH2M.com

TEMP:
15 PAGE 1 OF 1
TAL-1000(0408)



THE LEADER IN ENVIRONMENTAL TESTING

Portland Sample Control Checklist

Work Order #: PTK0558 Date/Time Received: 11/15/10 14:35Client Name: Delta (for Kinder Morgan)Project Name: KM Linniton

Time Zone:

 EDT/EST CDT/CST MDT/MST PDT/PST AK OTHER

Unpacking Checks:

Cooler (s): 1Temperature (s): 1-5 Digi #1 Digi #2

IR Gun

 (Plastic Glass) Raytek (Plastic Glass)

Ice used: (circle one)

GEL

LOOSE

BLUE

OTHER: _____

Initials: JW

N/A Yes No

- 1. If ESI client, were temp blanks received? If no, document on NOD.
- 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
- 3. Chain of Custody present? Along with "received by" & "relinquished by" signatures with date & time? If no, document on NOD.
- 4. Bottles received intact? If no, document on NOD.
- 5. Sample is not multiphasic? If no, document on NOD.
- 6. Sampler name/signature documented on COC?
- 7. Proper Container and preservatives used? If no, document on NOD.
- 8. pH of all samples checked and meet requirements? If no, document on NOD.
- 9. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
- 10. HF Dilution required?
- 11. Sufficient volume provided for all analysis and requested MS/MSD? If no, document on NOD and consult PM before proceeding.
- 12. Did chain of custody agree with samples received? If no, document on NOD.
- 13. Were VOA samples received without headspace?
- 14. Did samples require preservation with sodium thiosulfate?
- 15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
- 16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
- 17. Are analyses with short holding times received in hold?
- 18. Were special log- in instructions read and followed?

Checklist Reviewed: Log-in initials: M Labeler initials: JW

*Extra
Samples Collected
in cooler
that were
not on COC.*

BA-19.5